

**VOLUNTARY CORRECTIVE ACTION REPORT  
RCRA FACILITY INVESTIGATION  
NAVAL SUPPORT ACTIVITY MID-SOUTH**

**Petroleum-Contaminated Soil Removal  
Buildings S-362/SWMU 65, S-235, S-394, N-114/ SWMU 24, N-1211, N-105, N-108,  
S-203, SWMU 41, SWMU 43, SWMU 47, SWMU 48, and SWMU 49**

**Revision: 1**

**CTO-0146**

**Prepared for:**



**Department of the Navy  
Southern Division  
Naval Facilities Engineering Command  
North Charleston, South Carolina**

**Prepared by:**



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Memphis, Tennessee 38134  
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**The Contractor, EnSafe Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0318 are complete, accurate, and comply with all requirements of the contract.**

**Date:** June 29, 2001  
**Signature:** \_\_\_\_\_  
**Name:** John Stedman, Jr.  
**Title:** Task Order Manager



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June 29, 2001

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Document Transmittal — *Voluntary Corrective Action Report — Petroleum-  
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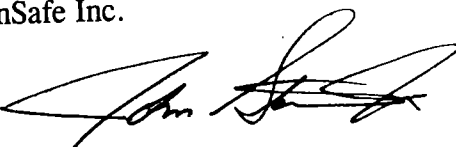
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**NSA Mid-South Responses to Comments on the VCA Report:  
Petroleum-Contaminated Soil Removal  
Revision: 0 — January 2001**

**Comment 1a:** Since this document was prepared, all of the soil has been disposed of in appropriate landfills. This should be reflected in the applicable narratives within the document. Additionally, the manifests for all excavated soil should be included in the document for accountability and final closure.

**Response 1a:** The text has been changed to reflect soil disposal. The soil disposal manifests have been included in Appendix C of the report.

**Comment 1b:** Please ensure that the amount of soil specified in the narrative is consistent with the quantity indicated on each manifest.

**Response 1b:** The amount of soil removed from each excavation is listed in each narrative. All manifests provided by NSA Mid-South, Environmental Division, are included in Appendix C of the report.

**Comment 1c:** Please indicate the nearest referenced facility number on the accompanying Figure for each of the sites. The location was not always intuitively obvious in all of the figures.

**Response 1c:** Nearby facilities and soil sample locations were added to several figures for clarification as described in the following comments.

**Comment 2:** Page 9: Were the results from ETC consistent with the TPH Plus Field Analyzer?

**Response 2:** Only the TPH field analyzer was used to analyze for TPH; therefore, the results could not be compared to laboratory data. At SWMU 47 ETC was used to analyze the confirmation TPH samples. However, the TPH field analyzer was not used at SWMU 47.

**Comment 3:** Figure 3.1.c: Please confirm that 065S0031 is correct on this diagram.

**Response 3:** "065S0031" is correct. Confirmation sample identification numbers mistakenly began with "0031" instead of "0032." Sample ID "065S0031" was previously used for the direct-push investigation and again for a confirmation sample.

**Comment 4:** Page 25 and 26: The RC for lead should be 26.0 versus 27.0 mg/kg

**Response 4:** The RC for lead was corrected on these pages.

**Comment 5:** Figure 3.3: It would be helpful to include Bldg S-394 on the diagram.

**Response 5:** Building S-394 was added to the figure.

**Comment 6:** Page 39: Paragraph 3.4.4: N-1211 should actually be N-114.

**Response 6:** N-1211 was changed to N-114.

**Comment 7:** Page 42: What was the first excavation back filled with?

**Response 7:** The narrative was changed to say that both N-1211 excavations were backfilled with clean material (pea gravel) after soil removal.

**Comment 8:** Figure 3.8: It would be helpful to have S-203 on the diagram.

**Response 8:** Building S-203 was added to Figure 3.8.

**Comment 9:** Figure 3.9: It would be helpful to have the nearest facility # on the diagram.

**Response 9:** Building S-262 and soil sampling location 041S0011 were added to Figure 3.9.

**Comment 10:** Figure 3.10: Please specify the nearest facility number on the diagram.

**Response 10:** Building S-66 and two additional soil sampling locations were added to Figure 3.10.

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## ACRONYMS AND ABBREVIATIONS

bls	Below land surface
cm/sec	Centimeters per second
DPT	Direct push technology
DSWM	Division of Solid Waste Management
E/A&H	EnSafe/Allen & Hoshall
EPH	Extractable Petroleum Hydrocarbons
ERNA	Environmental Restoration Navy Account
IR	Infrared
mg/kg	Milligrams per kilogram
MWR	Morale, Welfare, and Recreation
NEX	Navy Exchange
NSA	Naval Support Activity
OSWER	Office of Solid Waste and Emergency Response
POLs	Petroleum, oil, and lubricants
PWD	Public Works Department
RBC	Risk-based concentration
RC	Reference concentration
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TDEC	Tennessee Department of Environment and Conservation
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
UST	Underground storage tank
VCA	Voluntary Corrective Action

## 1.0 INTRODUCTION

As part of the U.S. Navy's Installation Restoration Program, EnSafe has prepared the following Voluntary Corrective Action (VCA) report for the excavation and removal of soil primarily contaminated with petroleum from 13 sites at NSA Mid-South, Millington, Tennessee.

### VCA Sites at NSA Mid-South

SWMU 65/Building S-362	Training Mock-Up Site
Building S-235	Automobile Maintenance Ramps
Facility S-394	Maintenance Shop
Facility N-114/SWMU 24	Auto Hobby Shop
Facility N-1211	Morale, Welfare, and Recreation Golf Course
	Maintenance Storage Area
Facility N-105	Quonset Hut
Facility N-108	Maintenance Shop
Facility S-203	Storage Quonset Hut
SWMU 41	Salvage Yard No. 2
SWMU 43	Former Hazardous Waste Accumulation Point
SWMU 47	Former Hazardous Waste Accumulation Point
SWMU 48	Hazardous Waste Accumulation Points
SWMU 49	Navy Exchange Service Station

These sites were identified in the *Assembly E RFI Report* (EnSafe, February 1998) and the *ERNA Gray Areas Investigation Report* (EnSafe, May 1999) as containing petroleum concentrations exceeding the applicable action levels. Therefore, the petroleum-contaminated soil was excavated from these sites, as outlined in the *Voluntary Corrective Action Work Plan* (EnSafe, May 1999). Figure 1.1 is a vicinity map showing the location of the 13 sites. The excavations and removals were conducted in accordance



with all applicable federal, state, and local laws and regulations. The primary references for this report are listed below.

### Primary References for This Report

*Voluntary Corrective Action Work Plan.* (EnSafe, June 1999).

*Comprehensive RCRA Facility Investigation Work Plan for Naval Air Station.* (E/A&H, 1994).

*Assembly E RCRA Facility Investigation (RFI) Report.* (EnSafe, February 2, 1998).

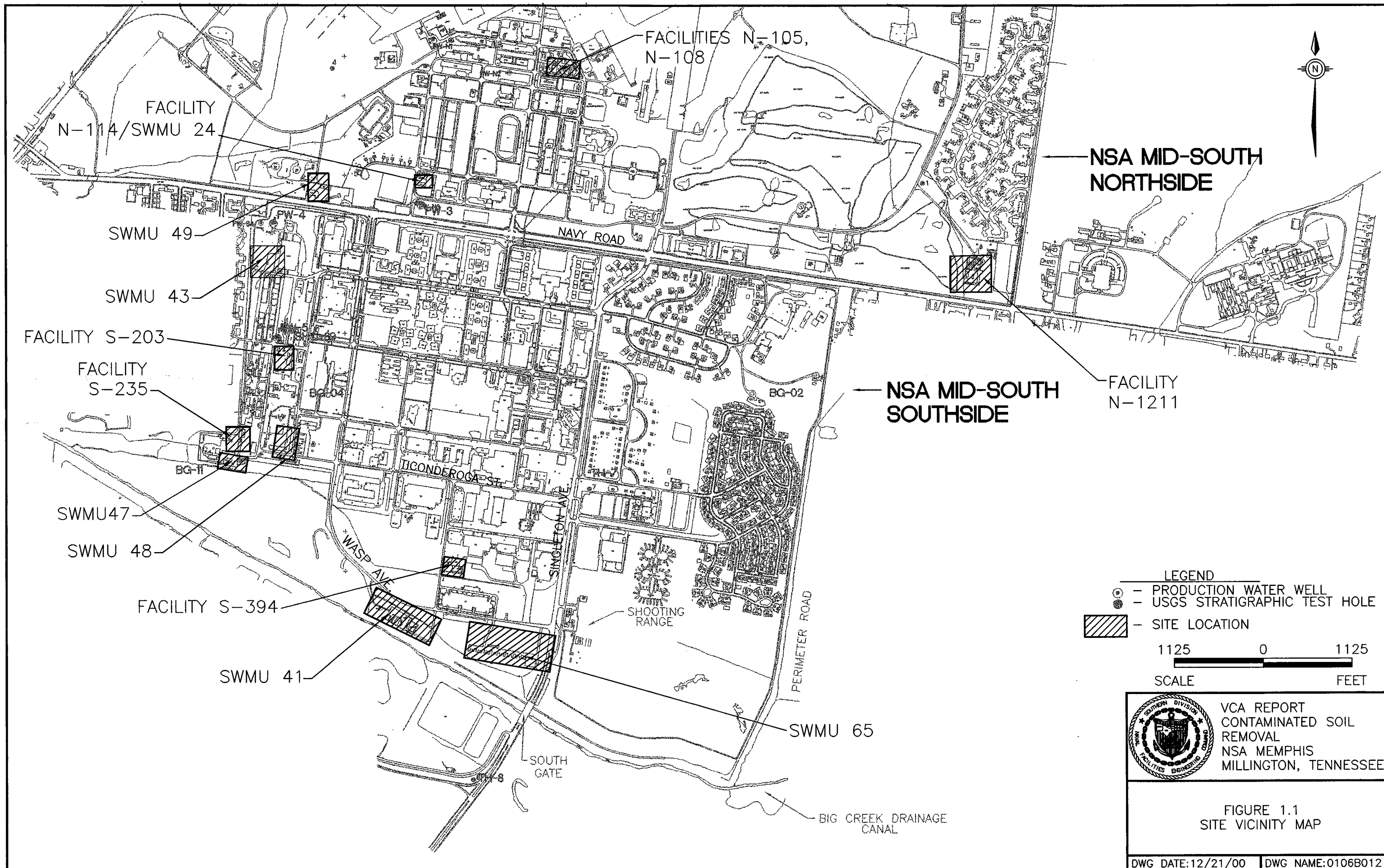
*Assemblies G and H Confirmatory Site Investigation Report.* (EnSafe, May 29, 1998).

*Environmental Restoration Navy Account (ERNA) Gray Areas Investigation Report.* (EnSafe, May 13, 1999).

The overall goal of the VCA was to remove and dispose of soil containing petroleum-related contamination from these sites, specifically areas where the Tennessee Department of Environment and Conservation (TDEC) site-specific cleanup level of 500 milligrams per kilogram (mg/kg) total petroleum hydrocarbons (TPH) was exceeded in soil and where metals in soil exceeded acceptable risk levels. As requested by the NSA Mid-South Public Works Department (PWD) Environmental Division, a more stringent TPH cleanup level of 100 mg/kg was used for 0- to 5-feet below land surface (bls) while the TDEC cleanup level of 500 mg/kg was used for soil below 5 feet.

### Primary VCA Objectives

- Excavate all soil in which petroleum contamination exceeds 100 mg/kg in the 0- to 5-feet interval and 500 mg/kg below 5 feet bls.



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- Confirm that petroleum and metal concentrations remaining in soil are less than applicable action levels. 1 2
- Properly dispose of excavated soil and return excavation areas to original elevations and surface conditions. 3 4

Each VCA soil removal is addressed in a separate section of this report because each site was excavated and sampled separately and the petroleum-contaminated soil was stockpiled and disposed of separately. All excavation, transportation, and disposal was conducted by the U.S. Army Corps of Engineers, Memphis District (Corps) unless otherwise indicated. All soil and waste sampling was conducted by EnSafe and laboratory services were provided by Environmental Testing and Consulting, Inc. (ETC) in Memphis, Tennessee. Laboratory results are provided in Appendix A. 5 6 7 8 9 10

*VCA Report — Petroleum-Contaminated Soil Removal*  
*Naval Support Activity Mid-South*  
*Revision: 1; June 29, 2001*

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## 2.0 APPLICABLE CLEANUP LEVELS

### 2.1 Total Petroleum Hydrocarbons

Because no risk-based concentration (RBC) or soil screening level (SSL) values have been established for TPH, TDEC soil-cleanup values<sup>1</sup> were used for comparison. TDEC has established three cleanup concentrations for TPH depending on soil permeability and aquifer classification: 100 mg/kg, 500 mg/kg, and 1,000 mg/kg.

Initially, the TDEC cleanup level of 500 mg/kg for total TPH in nondrinking water aquifers, the TDEC action level which is based on soil permeabilities of  $10^{-4}$  to  $10^{-6}$  centimeters per second (cm/sec) (TDEC 1997), was compared to total TPH concentrations in surface and subsurface soil at NSA Mid-South. This cleanup level was chosen because  $1.84\text{E-}6$  cm/sec, a value representing the average soil permeability from 20 samples across the base, was used as the default for sites lacking permeability data (EnSafe, June 1999). However, as requested by the PWD, Environmental Division, soil exceeding 100 mg/kg TPH at these sites was excavated from 0 to 5 feet bls and soil exceeding the TDEC cleanup level of 500 mg/kg was excavated from depths below 5 feet.

Currently, there are no permeability data for most of the removal sites addressed in this report; however, soil permeability for SWMU 65 was measured at  $4.80\text{E-}6$  cm/sec in the *Assembly E RFI Report* (EnSafe, February 1998), which sets the cleanup standard at 500 mg/kg.

### 2.2 Metals

Lead concentrations in soil are evaluated with respect to concentrations in the blood versus an established exposure percentage. The established standards for lead include a background reference concentration (RC) of 26.0 mg/kg for NSA Mid-South<sup>2</sup> and the soil lead action level of 400 mg/kg established by the USEPA Office of Solid Waste and

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<sup>1</sup> From the memorandum *Policy Statement for Petroleum Contaminated Sites* (TDEC, 1997).

<sup>2</sup> From the technical memorandum *Reference Concentrations* (E/A&H, 1996).

Emergency Response (OSWER) in Directive 9355.4-12. The established standards for arsenic, cadmium, chromium, and copper are listed in Table 2.1. Only lead, arsenic, cadmium, chromium, and copper were compared to their screening levels because they are found in petroleum products such as gasoline, diesel, and used oil.

Table 2.1 Standard Reference Values for Inorganic Constituents of Concern (in mg/kg)			
Inorganic Constituent	RC	Industrial RBC	Residential RBC
Arsenic	14.7	3.8	0.43
Cadmium	1.54	100	3.9
Chromium	23.9	610	23
Copper	24.2	8,200	310

**Note:**

RBCs for the noncarcinogens cadmium, chromium, and copper have been adjusted by a factor of 0.1 to account for the summation of risk associated with noncarcinogens.

Results from the VCA confirmatory samples collected after all soil removals were completed were compared with these standards. No confirmatory VCA soil sample exceeded both the RC and residential or industrial RBC at any removal location.

The cadmium laboratory detection limit (2.5 mg/kg) used for most sites during this VCA was higher than the RC (1.54 mg/kg) for NSA Mid-South. Therefore, RC exceedances could not be determined for cadmium soil concentrations. However, the cadmium concentrations were less than both RBCs in all samples collected.

The arsenic laboratory detection limit (50 mg/kg) used for most sites during this VCA was higher than the RC (14.7 mg/kg) for NSA Mid-South, and both the residential (0.43 mg/kg) and industrial (3.8 mg/kg) RBCs. Therefore, RC and residential and industrial RBC exceedances could not be determined for arsenic soil concentrations. However, all arsenic samples collected during this VCA were less than the laboratory detection limit of 50 mg/kg.

## 2.3 Sampling Methods

### Soil Screening

EnSafe personnel collected soil samples from the excavation walls and floor throughout the removal process. The samples were collected in accordance with procedures described in Section 4.4.3 of the *Comprehensive RFI Work Plan* (EnSafe, October 1994).

Samples were screened using an infrared (IR) TPH Plus Field Analyzer, which performs analyses based on USEPA Method 418.1 (IR method). Excavating continued until field screening demonstrated that the contaminated soil less than or equal to 5 feet bls had been removed to concentrations less than 100 mg/kg, and contaminated soil below 5 feet had been removed to the site-specific cleanup level of 500 mg/kg.

### Confirmation Soil Sampling

When soil had been removed to these cleanup levels, EnSafe collected five-part composite samples from the excavation walls and floor. The total number of composite samples depended on the size of the excavation, and are presented in the discussions of each site in the following sections. Except for SWMU 47, confirmation soil samples were analyzed onsite using the TPH Plus Field Analyzer for TPH (Method 418.1), and at ETC for Appendix IX metals (USEPA Method 6010/7000 series). All SWMU 47 confirmation samples were analyzed at ETC for TPH using the Tennessee Extractable Petroleum Hydrocarbons (TN-EPH) method and Appendix IX metals using USEPA Method 6010/7000 series.



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### 3.0 SITE-SPECIFIC REMOVAL ACTIVITIES

#### 3.1 SWMU 65 S-362 — Training Mock-Up Site

##### 3.1.1 Site Description

SWMU 65, which is on the NSA Mid-South Southside, is part of Assembly E, one of eight SWMU assemblies defined for the NSA Mid-South RCRA Corrective Action Program. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999). Figure 1.1 (shown earlier) depicts the location of SWMU 65.

Two areas were addressed during the SWMU 65 soil removal: those defined by direct-push technology (DPT) soil-sample locations 065S0022 and 065S0031 (the easternmost concrete airplane pad area), and DPT soil-sample location 065S0009. DPT sample locations 065S0009 and 065S0031 was previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH in the 0- to 5-foot-depth interval. Soil at DPT sample location 065S0022 was identified as containing petroleum concentrations exceeding 500 mg/kg TPH below a depth of 5 feet. Therefore, these areas were excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

##### 3.1.2 Removal Activities

Two areas within SWMU 65 (Figure 3.1a) were excavated from March 8 to 17, 2000: a JP-5 spill area (DPT locations 065S0022 and 065S0031) and the area around former DPT sample location 065S0009 (source of petroleum contamination unknown). Table 3.1 displays the confirmation sampling results, sample IDs, depths, and RCs for metals.

Table 3.1 SWMU 65 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
JP-5 Spill Area						
South excavation area Sample ID: 065S003210 Average Depth: 10 feet	<50	<2.5	<1	17.80	<25.00	35
Central excavation area Sample ID: 065S003308 Average Depth: 8 feet	<50	<2.5	22.20	18.40	<25.00	12
North excavation area Sample ID: 065S003402 Average Depth: 2 feet	<50	<2.5	<b>24.10</b>	19.90	<25.00	20
Former Sample Location 065S0009						
Sample ID: 065S003102 Average Depth: 2 feet	<50	<2.5	5.72	4.88	<25.00	20

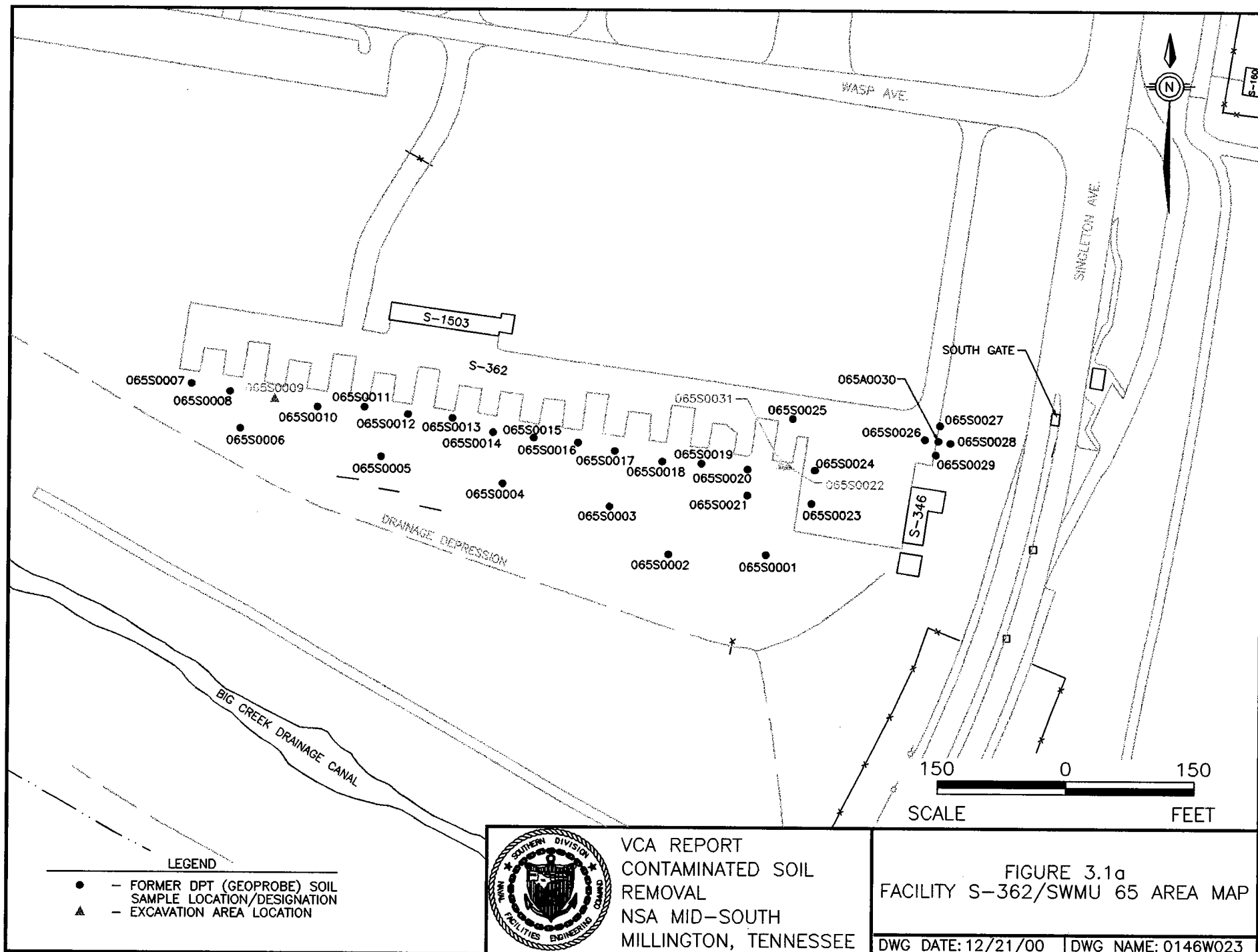
**Notes:**

**Bold** = Exceeds RC

**TPH** = Total Petroleum Hydrocarbons

### JP-5 Spill Area (Locations 065S0022 and 065S0031)

The first soil-removal area at SWMU 65, the JP-5 spill area which encompassed DPT sample locations 065S0022 and 065S0031, was excavated to a dimension of 25 feet by 35 feet and an average depth of 4 feet bls. The excavation and sampling locations are shown on Figure 3.1b. Excavation began with an approximately 15-foot square and 10-foot deep area within the spill area, as indicated in the *VCA Work Plan* (EnSafe, June 1999). A petroleum odor emanated from the stained soil that was excavated, and the TPH analyzer indicated that the soil exceeded the established cleanup level (500 mg/kg). Therefore, the excavation continued horizontally and vertically until TPH concentrations were less than the cleanup level.

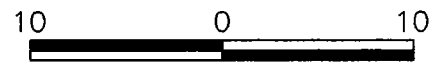
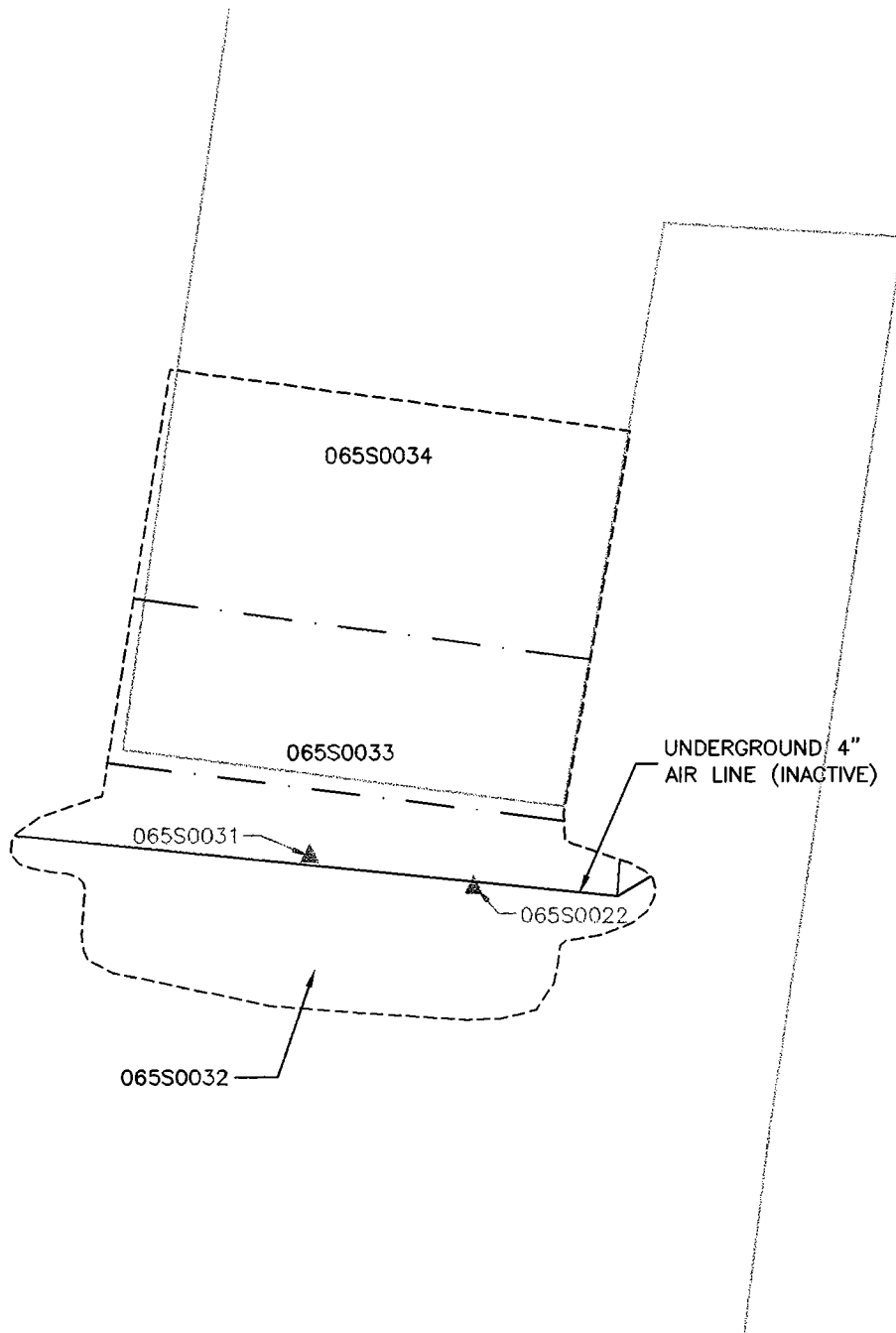


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FIGURE 3.1a  
FACILITY S-362/SWMU 65 AREA MAP

DWG DATE: 12/21/00 | DWG NAME: 0146W023

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SCALE

FEET

### LEGEND

- ▲ — DPT SOIL SAMPLING LOCATION
- 065S0032 — CONFIRMATION 5-PART COMPOSITE SOIL SAMPLING LOCATION
- — EXCAVATION AREA
- — — — — CONFIRMATION SAMPLING AREA BOUNDARY



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FIGURE 3.1b  
BUILDING S-362/SWMU 65  
SOIL REMOVAL AND SAMPLING MAP  
(DPT LOCATIONS 065S0022 AND 065S0031)

DWG DATE: 12/21/00

DWG NAME: 0146W014

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During excavation, a 4-inch steel pipe was encountered at a depth of approximately 3 feet bls. The pipe ran east-west, approximately 8 feet south of the concrete test pad. The pipe was determined to be a former compressed air line used to start aircraft engines and it was removed.

The contamination primarily extended north from the excavation area under the concrete pad; therefore, a 20- by 25-foot section of the concrete pad was removed and all visibly stained soil beneath it was excavated. The depth of petroleum contamination decreased as the excavation continued north. The deepest excavation area was approximately 10 feet bls and sloped upward to 1 foot at the north side of the excavation area. The TPH analyzer was used to confirm that the soil in the excavation sidewalls and bottom were less than the applicable cleanup level. Approximately 248 cubic yards of soil were removed from the area and transported to the grassy area adjacent to the west side of Building S-203 on the NSA Mid-South Southside, where it was staged on plastic, covered with plastic, and then bermed with straw for temporary storage.

Monitoring wells 065G01UA, 065G02UA, 065G03UA, and 065G04UA (Figure 3.1b) were abandoned because of the petroleum contamination extending into these areas. The wells were properly abandoned on March 16, 2000, by Tri-State Testing, Inc. of Memphis. The wells were filled with cement/bentonite grout using a bottom discharge tremie pipe, and permanently closed in accordance with the Memphis and Shelby County Health Department's regulations for well abandonment. See Appendix B of this report for a copy of the well-abandonment documentation.

#### **Former Sample Location 065S0009**

The second soil-removal area at SWMU 65, the area around DPT sample location 065S0009, was excavated to dimensions of 5 feet square by 2 feet deep, as required in the *VCA Work Plan* (EnSafe, June 1999). The excavation and sampling locations are shown on Figure 3.1c. The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used

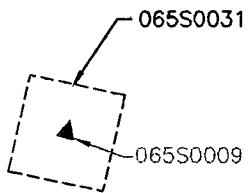


to confirm that soil concentrations of TPH in the excavation sidewalls and bottom were less than the applicable cleanup level. Approximately 2 cubic yards of soil were removed from the area and staged at Building S-203 for temporary storage as described above for soil from the JP-5 spill area.

### 3.1.3 Sample Results

Following excavation, confirmation soil samples were collected from both SWMU 65 excavation areas for Appendix IX metals analysis. Table 3.1 lists the confirmation-sampling results, which can be compared with the RCs in the top row. Sample locations are shown on Figures 3.1b and 3.1c. In the first excavation (the JP-5 spill area), the sidewall areas were minimal because the excavation sloped in all directions; therefore, the excavation cavity was divided into three sections (south, central, and north). One five-part composite sample was collected from each section for confirmation metals and TPH analyses. Another five-part composite confirmation soil sample was collected from the second excavation (former sample location 065S0009). The composite samples collected from the JP-5 spill area (sample ID 065S003402) exceeded the NSA Mid-South RC for chromium (23.9 mg/kg). However, chromium concentrations were less than its residential (230 mg/kg) and industrial (6,100 mg/kg) RBCs. All arsenic and cadmium results were less than their respective laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium exceed their RCs, as discussed in Section 2.2. In all remaining samples, soil metals results were less than their RCs. All confirmation TPH results were less than the applicable soil cleanup level (500 mg/kg at depths greater than 5 feet bls and 100 mg/kg at depths less than 5 feet bls). Laboratory reports and associated chain-of-custody forms are provided in Appendix A of this report.

The excavation was backfilled with pea gravel after the soil was removed. Clean soil was placed on the surface of the excavation, which was seeded and fertilized. New concrete was placed back in the area from which it was removed. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.



10 0 10

SCALE

FEET

### LEGEND

- ▲ — DPT SOIL SAMPLING LOCATION
- 065S0031 — CONFIRMATION 5-PART COMPOSITE SOIL SAMPLING LOCATION
- EXCAVATION AREA/TRENCHING AREA



VCA REPORT  
CONTAMINATED SOIL  
REMOVAL  
NSA MID-SOUTH  
MILLINGTON, TENNESSEE

FIGURE 3.1c  
BUILDING S-362/SWMU 65  
SOIL REMOVAL AND SAMPLING MAP  
(DPT LOCATION 065S0009)

DWG DATE: 12/21/00

DWG NAME: 0146W013

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On March 24, 2000, EnSafe personnel sampled the soil stockpile for toxicity characteristic leaching procedure (TCLP) lead and benzene analyses. The stockpile was divided into four equal sections and sampled. The results were submitted to NSA Mid-South PWD Environmental Division, which then transferred them to the Corps. The Corps submitted applications with the TCLP results to the TDEC Division of Solid Waste Management (DSWM) and Allied Waste of Scottsdale, Arizona, for disposal approval. Upon approval, the Corps transported the petroleum-contaminated soil to Allied Waste in Millington, Tennessee, for disposal. Copies of the disposal manifests for SWMU 65 and other NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.

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## 3.2 Facility S-235

### 3.2.1 Site Description

Building S-235 is a corrugated metal, frame structure on a concrete slab located on the NSA Mid-South Southside. Approximately 30 feet from the southwest corner of the building and approximately 200 feet southwest of the former location of SWMU 59 (old pesticide shop) is a set of former car maintenance ramps surrounded by grass and asphalt. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, 1999). Figure 1.1 (shown earlier) depicts the location of Building S-235.

The area of the former car maintenance ramps was addressed during the Building S-235 soil removal. No samples had been collected previously from the area. However, site histories and site conditions supported the belief that petroleum releases have occurred at the subject area. Therefore, these areas were excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

Additionally, a grassy area southwest of Building S-235 was suspected of containing underground storage tanks (USTs). A geophysical survey identified several areas of buried metals and exploratory digging was conducted. The site description, geophysical survey, and removal activities are detailed in Section 3.14 and Appendix D.

### 3.2.2 Removal Activities

The area of suspected petroleum contamination was excavated from September 10 to 14, 1999, to the following dimensions: 11 feet wide at the north wall, 17 feet wide at the south wall, 40 feet long and 4 feet deep (Figure 3.2). Excavation began with the removal of the car maintenance ramps. During removal of the ramps, petroleum-contaminated soil was discovered beneath the ramps, confirming suspicions of a release. Table 3.2 displays the confirmation sampling results, sample IDs, depths, and RCs for metals.

Table 3.2 S-235 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
East excavation wall Sample ID: 235SEWAL03 Average Depth: 3 feet	6.72	<0.57	11.10	12.40	9.98	NT
West excavation wall Sample ID: 235SWWAL03 Average Depth: 3 feet	<4.2	<0.57	9.06	10.60	<b>44.08</b>	NT
South excavation wall Sample ID: 235SSWAL03 Average Depth: 3 feet	9.27	<0.57	5.47	11.90	8.49	NT
North excavation wall Sample ID: 235SNWAL03 Average Depth: 3 feet	6.90	<0.57	10.50	9.82	8.73	NT
Northeast excavation bottom Sample ID: 235SONEC03 Average Depth: 3 feet	6.10	<0.57	9.52	9.73	7.62	NT
Northwest excavation bottom Sample ID: 235SONWC03 Average Depth: 3 feet	7.14	<0.57	12.30	11.50	9.79	NT
Southeast excavation bottom Sample ID: 235SOSEC05 Average Depth: 5 feet	12.50	<0.57	21.70	19.60	<b>33.40</b>	NT
Southwest excavation bottom Sample ID: 235SOSWC05 Average Depth: 5 feet	13.40	0.66	16.80	16.60	13.50	NT

**Notes:**

**Bold** = Exceeds RC  
TPH = Total Petroleum Hydrocarbons  
NT = Not Tested  
NA = Not Applicable

The excavated soils were stained and the TPH analyzer indicated the soil exceeded the established cleanup levels (500 mg/kg at depths greater than 5 feet bls and 100 mg/kg at depths less than 5 feet bls). Therefore, the excavation continued until TPH concentrations were less than the applicable cleanup level. Approximately 41 cubic yards of soil were removed from the area and staged near Building S-235 for temporary storage as previously described for the S-362/SWMU 65 excavations. Excavation and transportation was conducted by Murphy Environmental Services, Inc. of Memphis, Tennessee.

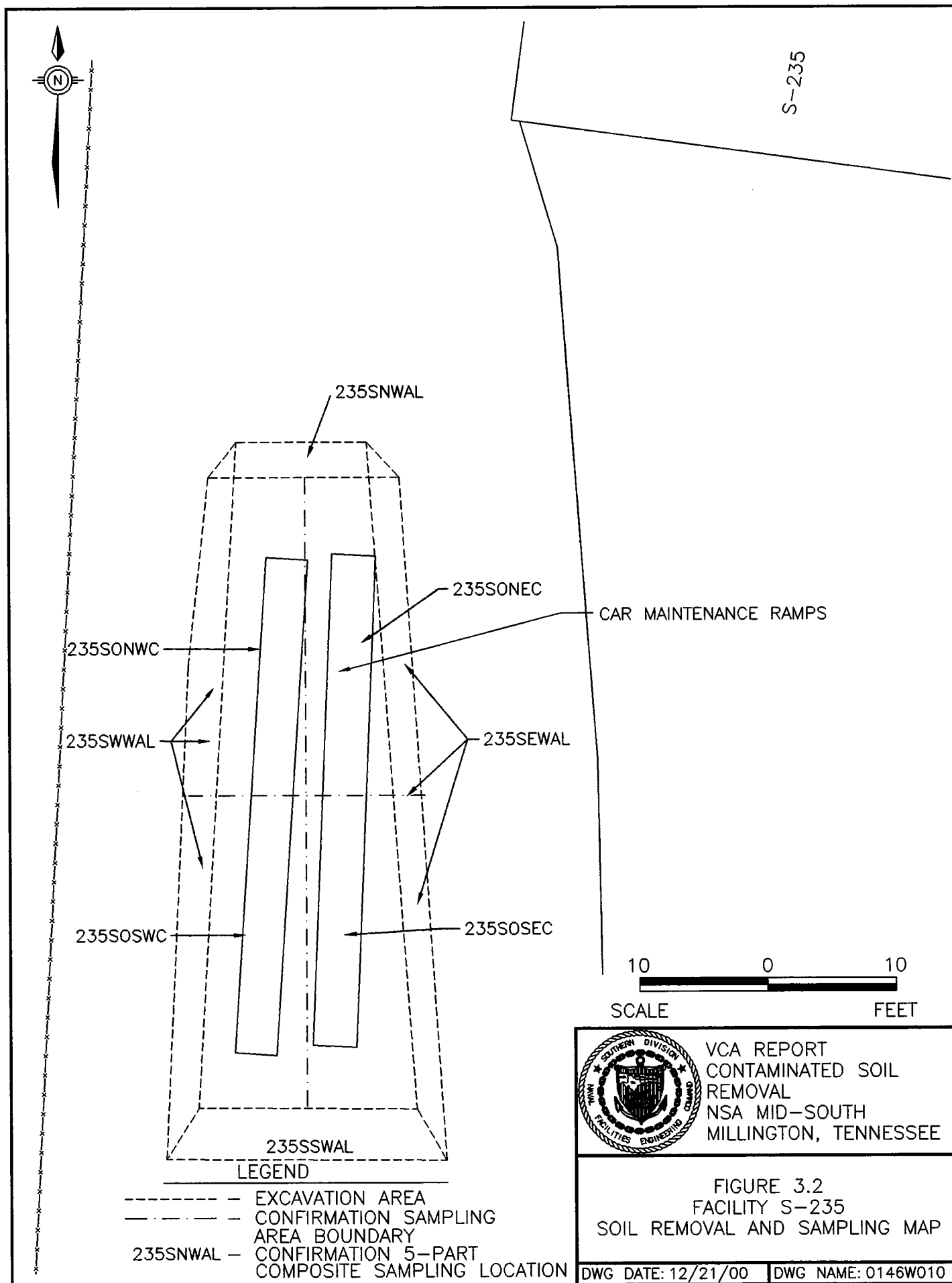
### 3.2.3 Sample Results

Following excavation activities, confirmation soil samples were collected from the Building S-235 excavation area for Appendix IX metals analysis. Table 3.2 lists the confirmation sampling results and Figure 3.2 shows the sample locations. Eight, five-part composite samples were collected from the excavation for confirmation soil-metals analyses. Composite samples were collected from each excavation sidewall and each bottom corner. The composite samples collected from locations 235SOSEC and 235SWWAL exceeded the NSA Mid-South RC for lead (26 mg/kg). However, lead concentrations were less than its action level (400 mg/kg) established by the USEPA OSWER in Directive 9355.4-12 (USEPA, May 1996). In all remaining samples, soil metals results were less than their RCs. Confirmation TPH samples were not collected; however, the TPH analyzer confirmed that all areas of the excavation were removed to less than 100 mg/kg during removal activities. Laboratory reports and associated chain-of-custody forms are presented in Appendix A of this report.

The excavation was backfilled with clean fill after the contaminated soil was removed. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.







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On September 15, 1999, EnSafe personnel sampled the soil stockpile for TCLP lead and benzene analyses. EnSafe submitted applications with the TCLP results to the TDEC DSWM and Allied Waste for disposal approval. The TCLP lead results exceeded the 5 mg/kg limit for nonhazardous landfill approval. Therefore, the application, including TCLP results, were submitted to Excel TSD, Inc. located in Memphis, Tennessee, an approved hazardous-waste handling facility. Upon approval, Excel TSD, Inc. properly disposed of the soil excavated at Facility S-235. Copies of the disposal manifests for S-235 and other NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.

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### 3.3 S-394 — Former Hazardous Waste Accumulation Point

#### 3.3.1 Site Description

Building S-394 was a 8,400-square-foot, metal structure built on a concrete slab on the NSA Mid-South Southside; it was previously used as a mechanical maintenance shop. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999). Figure 1.1 (shown earlier) depicts the location of Building S-394.

One area was addressed during the Building S-394 soil removal: DPT soil sample location 394S0002, which was previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1-foot-depth interval. Therefore, this area was excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

#### 3.3.2 Removal Activities

One area at Building S-394 (Figure 3.3) was excavated on May 9, 2000: the area around DPT sample location 394S0002. The soil-removal area was excavated to a dimension of 10 feet by 10 feet and a depth of 1 foot bls as indicated in the *VCA Work Plan* (EnSafe, June 1999). The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that soil left in the excavation had TPH concentrations less than the applicable cleanup level (100 mg/kg). Approximately 12 cubic yards of soil were removed from the area and transported to the grassy area adjacent to the west side of Building S-203, where it was staged on plastic, covered with plastic, and then bermed with straw for temporary storage. Table 3.3 displays the confirmation sampling results, sample IDs, locations, depths, and RCs for metals.

Table 3.3 S-394 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	<b>14.70</b>	<b>1.54</b>	<b>23.90</b>	<b>24.20</b>	<b>26.00</b>	<b>NA</b>
Former sample location 394S000201 Sample ID: 394S000401 Average Depth: 1 foot	< 50	< 2.50	19.20	10.40	<b>27.60</b>	15

*Notes:*

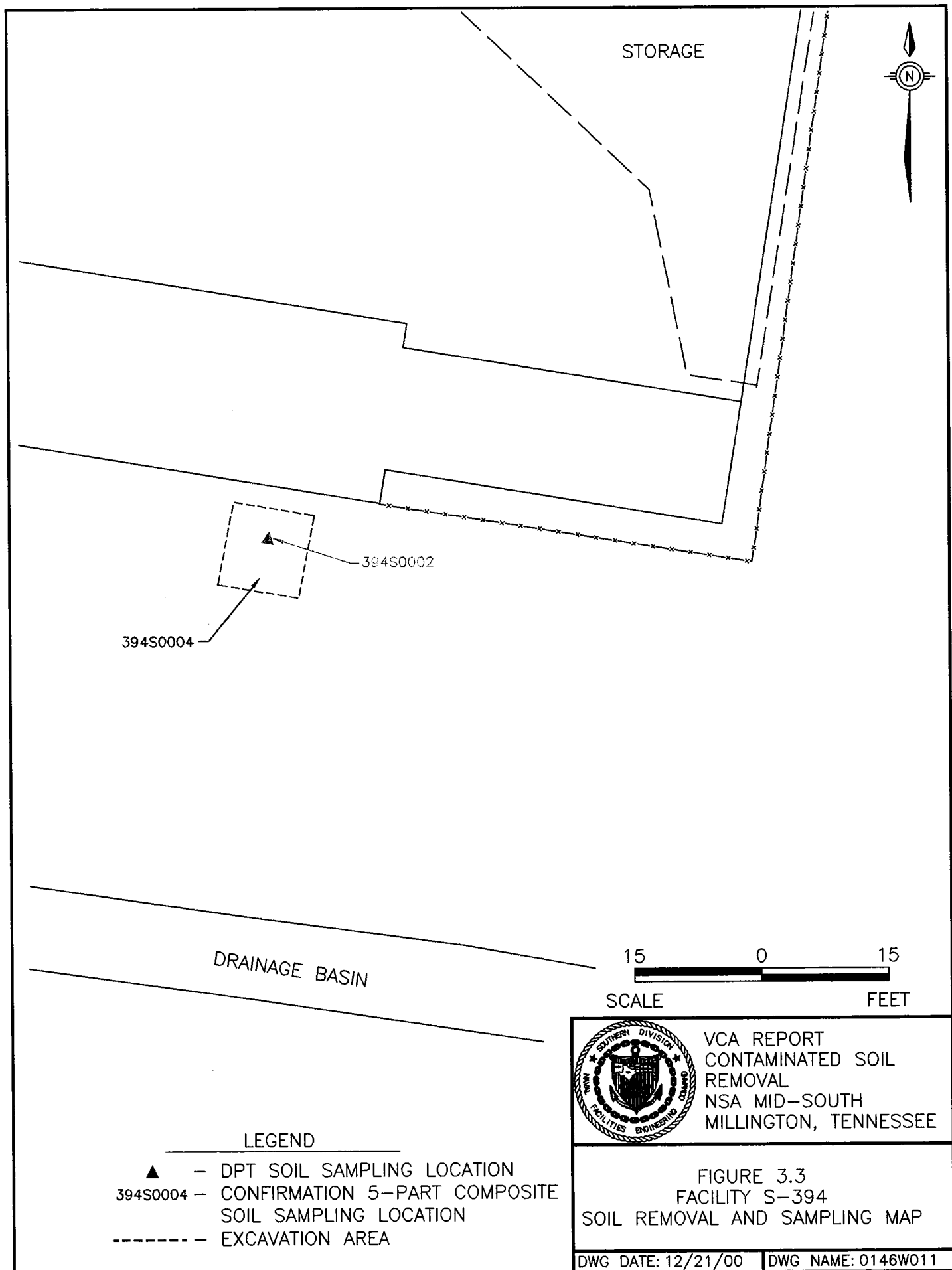
**Bold** = Exceeds RC

TPH = Total Petroleum Hydrocarbons

### 3.3.3 Sample Results

Following excavation, confirmation soil samples were collected from the Building S-394 excavation area for Appendix IX metals analysis. Table 3.3 lists the confirmation sampling results, which can be compared with the RCs in the top row. Sample locations are shown on Figure 3.3. One, five-part composite sample was collected from the excavation for confirmation metals and TPH analyses. The composite sample included soils from the excavation bottom and sidewalls. The composite sample exceeded the NSA Mid-South's RC for lead (26 mg/kg). However, the lead concentration was less than its action level (400 mg/kg) established by the USEPA OSWER in Directive 9355.4-12 (USEPA, May 1996).

The arsenic and cadmium results were less than their respective laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium exceed their RCs, as discussed in Section 2.2. The remaining soil-metals results were less than their RCs. All confirmation TPH results were less than the applicable cleanup level (100 mg/kg). Laboratory reports and associated chain-of-custody forms are presented in Appendix A of this report.





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The excavation was backfilled with clean fill after the soil was removed, and the surface was seeded and fertilized. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.

On May 9, 2000, EnSafe personnel sampled the soil stockpile for TCLP metals and benzene analyses. The results were submitted to NSA Mid-South PWD Environmental Division, which then transferred them to the Corps. The Corps submitted applications with the TCLP results to the TDEC DSW Management and Allied Waste for disposal approval. Upon approval, the Corps transported the petroleum-contaminated soil to Allied Waste in Millington, Tennessee, for disposal. Copies of the disposal manifests for S-394 and other NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.

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### 3.4 Facility N-114 (Auto Hobby Shop)/ SWMU 24

#### 3.4.1 Site Description

Facility N-114 on the NSA Mid-South Northside is used by base personnel to maintain personal automobiles, and SWMU 24 formerly consisted of two aboveground waste-oil tanks between Building N-114 and Building N-349. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999). Figure 1.1 (shown earlier) depicts the location of Facility N-114/SWMU 24.

Two areas were addressed during the Facility N-114/SWMU 24 soil removal: DPT soil-sample locations 024S0001, 024S0002, 024S0003, 024S0004, and 024S0005 (the area between Facilities N-114 and N-349) and DPT soil-sample location 114S0001 (the area adjacent to the northwest corner of Facility N-114). DPT sample locations 114S0001, 024S0001, 024S0002, 024S0003, 024S0004, and 024S0005 were previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 5-foot-depth interval. DPT sample locations 024S0002 and 024S0004 were identified as containing soil with petroleum concentrations exceeding 500 mg/kg TPH below depths of 5 feet. Therefore, these areas were excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

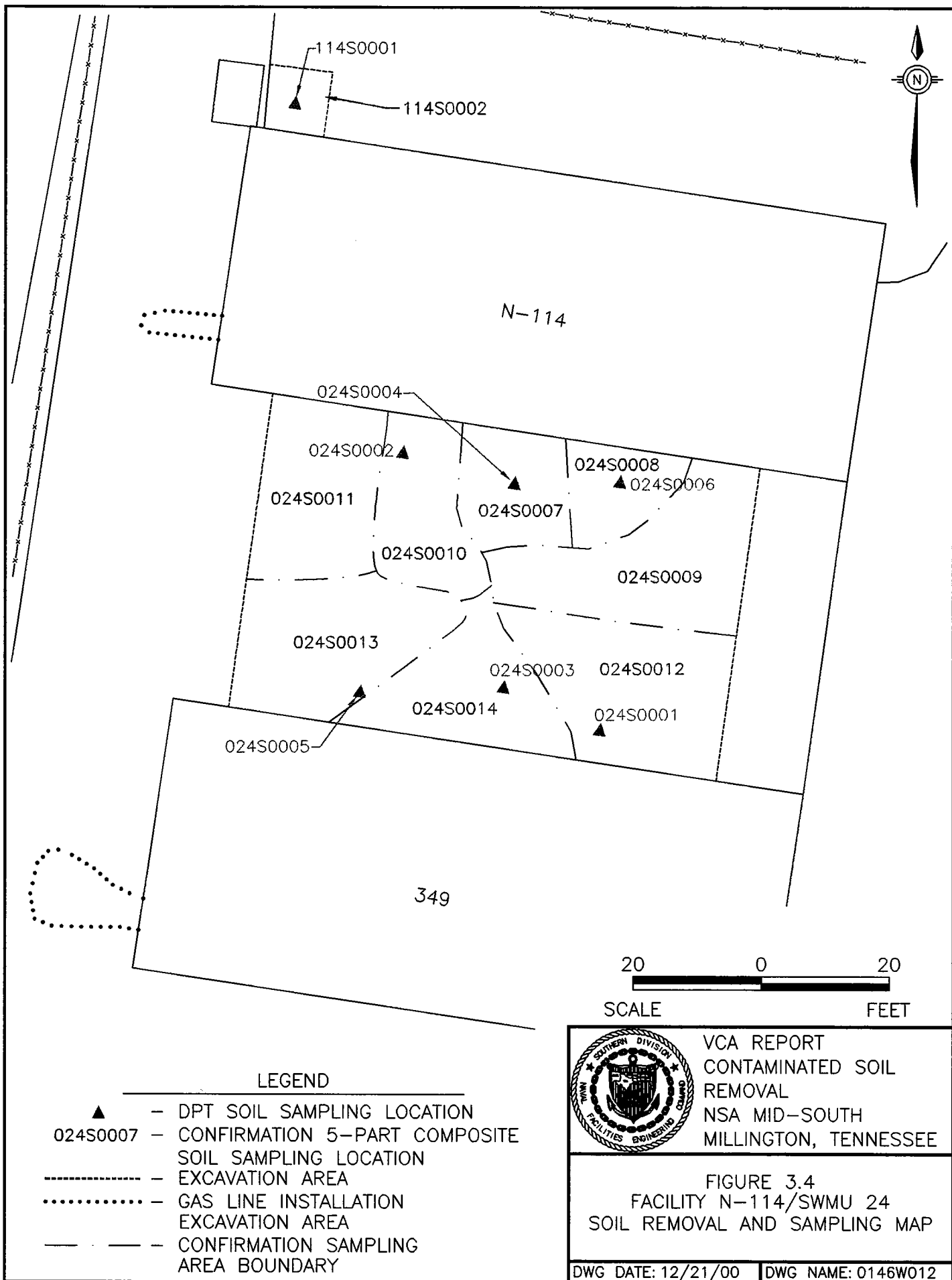
#### 3.4.2 Removal Activities

Two areas within Facility N-114/SWMU 24 (Figure 3.4) were excavated from May 11 to 16, 2000: the area between Buildings N-114 and N-349, which encompasses DPT sample locations 024S0001, 024S0002, 024S0003, 024S0004, and 024S0005, and the area at Facility N-114/SWMU 24 which encompasses sample location 114S0001. Table 3.4 displays the confirmation sampling results, sample IDs, locations, depths, and RCs.

Table 3.4 N-114/SWMU 24 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
Excavation Between Buildings N-114 and N-349						
Former sample location 024S0004 Sample ID: 024S000708 Average Depth: 8 feet	< 50	< 2.5	14.20	15.90	26.00	50
Former sample location 024S0006 Sample ID: 024S000803 Average Depth: 3 feet	< 50	< 2.5	12.30	16.60	< 25	4
Northeast excavation area Sample ID: 024S000902 Average Depth: 2 feet	< 50	< 2.5	15.00	16.80	< 25	3
Northwest excavation area Sample ID: 024S001002 Average Depth: 2 feet	< 50	< 2.5	15.40	16.30	< 25	6
West excavation area Sample ID: 024S001102 Average Depth: 2 feet	< 50	< 2.5	12.50	13.80	< 25	11
Southeast excavation area Sample ID: 024S001202 Average Depth: 2 feet	< 50	< 2.5	14.60	21.50	< 25	10
Southwest excavation area Sample ID: 024S001302 Average Depth: 2 feet	< 50	< 2.5	13.20	18.40	< 25	< 1
South excavation area Sample ID: 024S001404 Average Depth: 4 feet	< 50	< 2.5	13.50	17.00	< 25	5
Excavation Area Adjacent to the Northwest Corner of Building N-114						
Sample ID: 114S000203 Average Depth: 3 feet	< 50	< 2.5	14.00	22.50	75.80	< 1

**Notes:**

**Bold** = Exceeds RC  
 TPH = Total Petroleum Hydrocarbons



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### Area Between Buildings N-114 and 349

The first removal area at Facility N-114/SWMU 24, the area between Buildings N-114 and N-349, which encompasses DPT sample locations 024S0001, 024S0002, 024S0003, 024S0004, and 024S0005, was excavated to dimensions of 50 by 70 feet and an average depth of 2 feet bls. All excavation-dimension requirements listed in the *VCA Work Plan* (EnSafe, June 1999) were accomplished at Facility N-114/SWMU 24. Excavation began with an approximately 10-foot square and 5-foot-deep area centered at DPT sample location 024S0002 (Figure 3.4). A petroleum odor emanated from the stained soil that was excavated, and the TPH analyzer indicated that the soil exceeded the established cleanup levels (500 mg/kg at depths greater than 5 feet bls and 100 mg/kg at depths less than 5 feet bls). Therefore, the excavation continued horizontally and vertically until TPH concentrations were less than the applicable cleanup level. Contaminated soil extended east and south at shallow depths from the initial excavation area. The contaminated soil was also concentrated near the former oil-change rack areas. The TPH analyzer indicated petroleum contamination exceeded the cleanup levels to a depth of approximately 6 feet bls beneath the rack area.

The same trend was observed in the southern portion of the excavation as it neared the rack area adjacent to the north side of Building N-349. Petroleum contamination extended to a depth of approximately 6 feet bls beneath the rack area and progressively became shallower extending away from the rack area. The contamination primarily extended east and north at shallow depths from DPT sample location 024S0005. The TPH analyzer was used to confirm that soil in the excavation sidewalls and bottom contained TPH concentrations that were less than the applicable cleanup level. Approximately 72 cubic yards of soil were removed from the area and transported to the grassy area adjacent to the west side of Building S-203 on the NSA Mid-South Southside, where it was staged on plastic, covered with plastic, and then bermed with straw for temporary storage.



## Area North of Facility N-114

The second soil-removal area at Facility N-114/SWMU 24, the area around DPT sample location 114S0001, was excavated to a dimension of 10 feet square by 2 feet deep, as required in the *VCA Work Plan* (Ensafe, June 1999). The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that concentrations of TPH in soil in the excavation sidewalls and bottom were less than the applicable cleanup level (100 mg/kg). Approximately 8 cubic yards of soil were removed from the area and staged at Building S-203 on the NSA Mid-South Southside for temporary storage, as described above for soil from the S-236/SWMU 65 removal area.

### 3.4.3 Sample Results

Following excavation activities, confirmation soil samples were collected from both Facility N-114/SWMU 24 excavation areas for Appendix IX metals analysis. Table 3.4 displays the confirmation sampling results, which can be compared with the RCs in the top row. In the first excavation (the area between Buildings N-114 and 349), eight, five-part composite samples were collected for confirmation metals and TPH analyses (Figure 3.4). Three biased samples (024S000708, 024S000803, and 024S001404) were collected from locations that exhibited elevated TPH concentrations that extended below 2 feet bls. The remaining five samples were collected at locations equally divided throughout the excavation. In the excavation adjacent to the northwest corner of Building N-114, one confirmation soil sample was collected. The composite sample collected from location 114S0002 in this excavation exceeded the RC for lead (26 mg/kg). However, the lead concentration was less than its action level (400 mg/kg) established by the USEPA OSWER in Directive 9355.4-12 (USEPA, May 1996). All arsenic and cadmium results were less than their respective laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium are greater than their NSA Mid-South RCs, as discussed in Section 2.2. In all remaining samples, soil-metals results were less than their RCs.

All confirmation TPH results were less than the applicable cleanup level. Laboratory reports and associated chain-of-custody forms are included in Appendix A of this report.

The excavations were backfilled with pea gravel after the soil was removed. New asphalt was laid back in the area from which it was removed between Buildings N-114 and 349. Temporary fencing and barricades were placed around the excavations during all excavation and construction activities.

On May 17, 2000, EnSafe personnel sampled the Facility N-114/SWMU 24 soil stockpiles for TCLP metals and benzene analyses. The stockpile was divided into two equal sections and sampled. The results were submitted to NSA Mid-South PWD Environmental Division, which then transferred them to the Corps. The Corps submitted applications with the TCLP results to the TDEC DSWM and Allied Waste for disposal approval. Upon approval, the Corps transported the petroleum-contaminated soil to Allied Waste in Millington, Tennessee, for disposal. Copies of the disposal manifests for N-114/SWMU 24 and other NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.

#### **3.4.4 Utility Line Installation**

During a natural gas line installation at SWMU 24 on August 11, 1999, petroleum-contaminated soil was discovered adjacent to the west sides of Buildings N-114 and N-349. A petroleum odor emanated from the stained soil that was excavated. A photo-ionization detector (PID) was used to confirm petroleum contamination. The excavation activities for the gas-line installation were temporarily postponed.

On September 7, 1999, Murphy Environmental Services, Inc. and EnSafe personnel were onsite to excavate the petroleum-contaminated soil discovered during the gas-line installation. Approximately 19 cubic yards was excavated from an area 8 feet long by 17 feet wide by

3.5 feet deep on the west side of Building 349. On September 8, 1999, approximately 1  
6 cubic yards was excavated from an area 4.5 feet wide by 12 feet long by 3 feet deep adjacent 2  
to the west side of Building N-114. The TPH analyzer was used to confirm soil contamination and 3  
guide the excavation process. All petroleum-impacted soils exceeding the site-specific 4  
TDEC action level of 500 mg/kg TPH were removed. In all, approximately 25 cubic yards of soil 5  
were removed from the two areas and temporarily staged adjacent to the south side of 6  
Building 349. The soil was placed on plastic, covered with plastic, and then bermed with straw 7  
for temporary storage. 8

The excavations were backfilled with gravel after the soil removal was complete. The gas line was 9  
installed and the area was resurfaced. Temporary fencing and barricades were placed around the 10  
excavations during all excavation and construction activities. 11

On September 15, 1999, EnSafe personnel sampled the SWMU 24 gas-line excavation 12  
soil stockpiles for TCLP metals and benzene analyses. The results and applications were 13  
submitted to the TDEC DSWM and Allied Waste for disposal approval. Upon approval, the 14  
Corps transported the petroleum contaminated soil to Allied Waste in Millington, Tennessee, for 15  
disposal. 16

### 3.5 Facility N-1211

#### 3.5.1 Site Description

Facility N-1211 is a 4,320-square-foot wood-framed structure built on a concrete slab floor in 1958. It is used for storage and as a golf-course equipment maintenance shop by the Morale, Welfare, and Recreation (MWR) department. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999). Figure 1.1 (shown earlier) depicts the location of Facility N-1211.

Two areas were addressed during the Facility N-1211 soil removal: DPT soil-sample locations 174S0002 and 174S0004 (Figure 3.5). DPT sample locations 174S0002 and 174S0004 were previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1-foot-depth interval. Therefore, these areas were excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

#### 3.5.2 Removal Activities

Two areas within the Facility N-1211 complex (Figure 3.5) were excavated from February 25 to March 1, 2000: DPT soil-sample locations 174S0002 and 174S0004. Table 3.5 displays the confirmation sampling results, sample IDs, locations, depths, and RCs for metals.

##### Sample Location 174S0004 Area

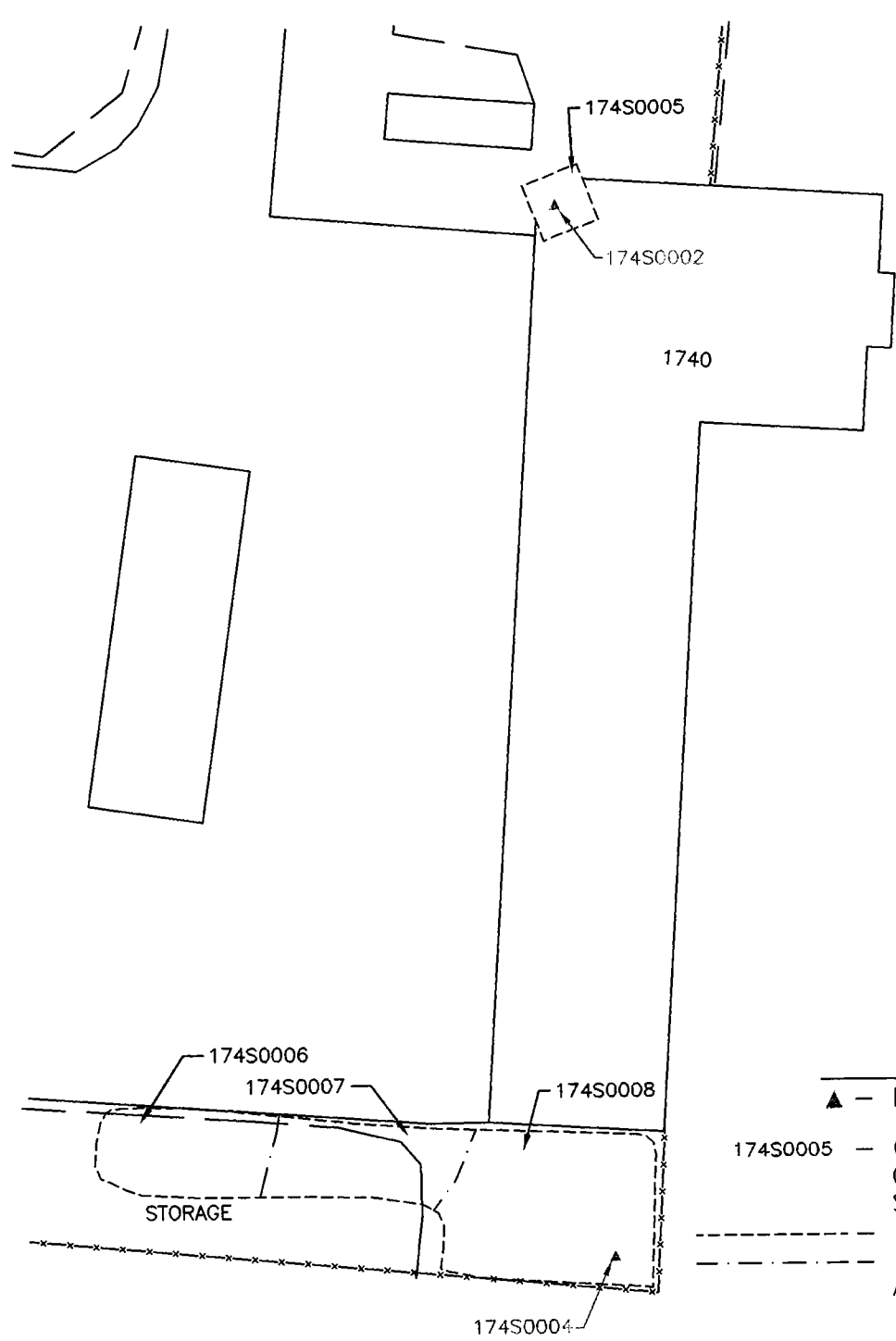
The first soil-removal area at Facility N-1211, the area around DPT sample location 174S0004, was excavated to dimensions of 90 by 20 feet and an average depth of 3 feet bls. The excavation began with a 10-foot square and 2-foot-deep area within the spill area, as indicated in the *VCA Work Plan* (EnSafe, June 1999). A petroleum odor emanated from the stained soil that was excavated, and the TPH analyzer indicated that the soil contained TPH concentrations exceeding the established cleanup level (500 mg/kg at depths greater than 5 feet bls and 100 mg/kg at depths less than 5 feet bls). Therefore, the excavation continued horizontally and vertically until TPH concentrations were less than the cleanup level.

Table 3.5 N-1211 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
Former Sample Location 174S0002						
Sample ID: 174S000501 Average Depth: 1 foot	< 50	< 2.5	13.50	NT	27.30	49
Former Sample Location 174S0002						
West excavation area Sample ID: 174S000601 Average Depth: 3 feet	< 50	< 2.5	15.70	NT	< 25	30
Central excavation area Sample ID: 174S000701 Average Depth: 3 feet	< 50	< 2.5	10.80	NT	< 25	55
East excavation area Sample ID: 174S000801 Average Depth: 3 feet	< 50	< 2.5	15.00	NT	50.40	25

**Notes:**

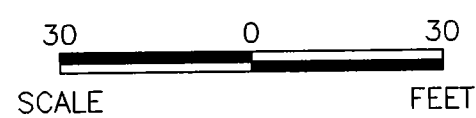
**Bold** = Exceeds RC  
 TPH = Total Petroleum Hydrocarbons  
 NT = Not Tested  
 NA = Not Applicable

The contamination in the sample 174S0004 area primarily extended westward adjacent to the south edge of the pavement, and extended vertically at varying depths. The excavation extended to a maximum depth of approximately 8 feet at two locations: the westernmost area of the excavation and an area centered around former sample location 174S0004. Figure 3.5 displays the excavation areas. The TPH analyzer was used to confirm that TPH concentrations in the soil in the excavation sidewalls and bottom were less than the applicable cleanup level. Approximately 170 cubic yards of soil were removed from the area and staged in the grassy area adjacent to the east of Building N-1740 for temporary storage (Figure 3.5). The soil was staged on plastic, covered with plastic, and then bermed with straw.



LEGEND

- ▲ - DPT SOIL SAMPLING LOCATION
- 174S0005 - CONFIRMATION 5-PART COMPOSITE SOIL SAMPLING LOCATION
- EXCAVATION AREA
- . - . - . - CONFIRMATION SAMPLING AREA BOUNDARY



VCA REPORT  
CONTAMINATED SOIL  
REMOVAL  
NSA MID-SOUTH  
MILLINGTON, TENNESSEE

FIGURE 3.5  
FACILITY 1211  
SOIL REMOVAL AND SAMPLING MAP  
DWG DATE: 12/21/00 DWG NAME: 0146W004

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### Sample Location 174S0002 Area

The second soil-removal area at Facility N-1211, the area around DPT sample location 174S0002, was excavated to dimensions of 10 feet square by 1 foot deep, as required in the *VCA Work Plan* (EnSafe, June 1999). The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that concentrations of TPH in soil in the excavation sidewalls and bottom were less than the applicable cleanup level. Approximately 4 cubic yards of soil were removed from the area and staged with the excavated soil from the 174S0004 area for temporary storage.

### 3.5.3 Sample Results

Following excavation, confirmation soil samples were collected from both Facility N-1211 excavation areas for Appendix IX metals and TPH analyses. Table 3.5 displays the confirmation-sampling results, which can be compared with the NSA Mid-South RCs in the top row. Sample locations are shown on Figure 3.5. In the first excavation (DPT sample 174S0004 excavation area), the excavation cavity was divided into three sections (west, central, and east). One, five-part composite sample was collected from each section. These three composite samples included soils from the excavation bottom and sidewalls. Another five-part composite confirmation soil sample was collected from the second excavation (former DPT sample location 174S0002).

The composite samples collected from locations 174S000501 and 174S000801 exceeded the RC for lead (26 mg/kg). However, lead concentrations in the samples were less than the action level (400 mg/kg) established by the USEPA OSWER in Directive 9355.4-12 (USEPA, May 1996). All arsenic and cadmium results were less than their respective laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium exceeded their NSA Mid-South RCs, as discussed in Section 2.2. In all remaining samples, soil metals results were less than their RCs. All confirmation TPH results were less than the



applicable cleanup level. Laboratory reports and associated chain-of-custody forms are included  
in Appendix A of this report.

The excavations were backfilled with clean fill after the soil was removed. Clean soil was placed  
at the surface of the excavations and the surfaces were seeded and fertilized. Temporary fencing  
and barricades were placed around the excavations during all excavation and  
construction activities.

On March 14, 2000, EnSafe personnel sampled the soil stockpile for TCLP metals and  
benzene analyses. The stockpile was divided into two equal sections and sampled. The results  
were submitted to NSA Mid-South PWD Environmental Division, which then transferred  
them to the Corps. The Corps submitted applications with the TCLP results to the  
TDEC DSWM and Allied Waste for disposal approval. Upon approval, the Corps transported the  
petroleum-contaminated soil to Allied Waste in Millington, Tennessee, for disposal. Copies of  
the disposal manifests for N-1211 and other NSA Mid-South petroleum-contaminated  
soil removal sites are included in Appendix C.

## 3.6 Facility N-105

### 3.6.1 Site Description

Facility N-105 is a 4,000-square-foot steel frame Quonset hut currently used to store office furniture and supplies on the NSA Mid-South Northside. Previously, the site was used for corrosion-control training. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999). Figure 1.1 (shown earlier) depicts the location of Facility N-105.

One area was addressed during the Facility N-105 soil removal: DPT soil-sample location 105S0001, which was previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1- foot-depth interval. Therefore, this area was excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

### 3.6.2 Removal Activities

During a gas-line utility installation on August 11, 1999, the area of DPT sample location 105S0001 was excavated. The excavated soil was not visibly stained and had no petroleum odor. Soil samples collected from the area were screened for volatiles using a PID. Soil screening revealed no detected volatile concentrations in the samples collected. Therefore, a petroleum-contaminated soil removal, including confirmatory sampling, was not conducted. Figure 3.6 shows a detailed site map of the Facility N-105 area.

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N-105

N-106

105S0001

ENIWETOK STREET

15 0 15  
SCALE FEET



VCA REPORT  
CONTAMINATED SOIL  
REMOVAL  
NSA MID-SOUTH  
MILLINGTON, TN.

LEGEND

105S0002— DPT SOIL SAMPLING LOCATION  
----- INSTALLED GAS LINE

FIGURE 3.6  
FACILITY N-105  
SOIL REMOVAL AND SAMPLING MAP

DWG DATE: 12/21/00 | DWG NAME: 0146W005

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### 3.7 Facility N-108 (Maintenance Shop)

#### 3.7.1 Site Description

Facility N-108 is also a Quonset hut (identical to N-105) that houses offices and a maintenance shop where electrical parts (generators) are repaired. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan*. Figure 1.1 (shown earlier) depicts the location of N-108.

One area was addressed during the Facility N-108 soil removal: DPT soil-sample location 108S0002, which was previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1- foot-depth interval. Therefore, this area was excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

#### 3.7.2 Removal Activities

The soil-removal area was excavated to dimensions of 5 by 5 feet and a depth of 2 feet bls (Figure 3.7), as indicated in the *VCA Work Plan* (EnSafe, June 1999). The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that TPH concentrations in soil in the excavation were less than the applicable cleanup level (100 mg/kg). Approximately 2 cubic yards of soil were removed from the area and transported to the grassy area adjacent to the west side of Building S-203, where it was staged on plastic, covered with plastic, and then bermed with straw for temporary storage. Table 3.6 displays the confirmation sampling results, sample IDs, locations, depths, and RCs.

#### 3.7.3 Sample Results

Following excavation, confirmation soil samples were collected from the Facility N-108 excavation area for Appendix IX metals and TPH analyses. Table 3.6 lists the confirmation sampling results, which can be compared with the NSA Mid-South RCs in the top row. Sample locations are shown on Figure 3.7. One, five-part composite sample was collected from the excavation for confirmation metals and TPH analyses. The composite samples

Table 3.6 N-108 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
Former sample location 108S0002 Sample ID: 108S000302 Average Depth: 2 feet	< 50	< 2.5	16.50	<b>26.60</b>	< 25	8

**Notes:**

**Bold** = Exceeds RC  
 TPH = Total Petroleum Hydrocarbons  
 NA = Not Applicable

included soils from the excavation bottom and sidewalls. The composite sample collected from location 108S000302 exceeded the NSA Mid-South RC for copper (24.2 mg/kg). However, the concentration of copper was less than its residential (310 mg/kg) and industrial (8,200 mg/kg) RBCs. The arsenic and cadmium results were less than their respective laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium exceed their RCs, as discussed in Section 2.2. The remaining soil-metals results were less than their RCs. All confirmation TPH results were less than the applicable cleanup level. Laboratory reports and associated chain-of-custody forms are provided in Appendix A of this report.

The excavation was backfilled with clean fill after the soil was removed, and the surface was seeded and fertilized. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.

On May 4, 2000, EnSafe personnel sampled the soil stockpile for TCLP metals and benzene analyses. The results were submitted to NSA Mid-South PWD Environmental Division, which then transferred them to the Corps. The Corps submitted applications with the TCLP results to the TDEC DSW Management and Allied Waste for disposal approval. Upon approval, the Corps transported the petroleum-contaminated soil to Allied Waste in Millington, Tennessee, for disposal. Copies of the disposal manifests for N-108 and other NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.



108S0002



108S0003

N-108

N-109

15 0 15

SCALE

FEET

#### LEGEND

- ▲ - DPT SAMPLING LOCATION
- 108S0003 - CONFIRMATION 5-PART COMPOSITE SOIL SAMPLING LOCATION
- EXCAVATION AREA



VCA REPORT  
CONTAMINATION SOIL  
REMOVAL  
NSA MID-SOUTH  
MILLINGTON, TN.

FIGURE 3.7  
FACILITY N-108  
SOIL REMOVAL AND SAMPLING MAP

DWG DATE: 12/21/00 | DWG NAME: 0146W006



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### 3.8 Facility S-203 — Quonset Hut (Storage)

#### 3.8.1 Site Description

Facility S-203 is located on the NSA Mid-South Southside and is currently used as the Hazardous Material Minimization Center and the Hazardous Waste Accumulation Area of the Base Operations Services Contractor. This 9,000-square-foot Quonset hut was built in 1947 and was previously used to store various supplies, including flammable liquids. The nearby Facility S-219, a small 546-square-foot brick structure built in 1949, was used to store petroleum, oils, and lubricants (POLs). Facility 1470, another nearby structure, is a metal cage on top of a 3-foot high concrete slab, which is currently not in use. Facilities S-219 and 1470 are associated with Facility S-203 because of their proximity and similar uses. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999). Figure 1.1 depicts the location of Facility S-203.

One area was addressed during the Facility S-203 soil removal: DPT soil-sample location 203S0003, which was previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1- foot-depth interval. Therefore, this area was excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

#### 3.8.2 Removal Activities

The soil-removal area was excavated to dimensions of 5 by 5 feet and a depth of 2 feet bls, as indicated in the *VCA Work Plan* (EnSafe, June 1999). The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that soil in the excavation contained TPH concentrations that were less than the applicable cleanup level (100 mg/kg). Approximately 2 cubic yards of soil were removed from the area and transported to the grassy area adjacent to the west side of Building S-203 where it was staged on plastic, covered with plastic, and then bermed with straw for temporary storage. Table 3.7 displays the confirmation sampling results, sample IDs, locations, depths, and RCs.

Table 3.7 S-203 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
Former sample location 203S0004 Sample ID: 203S000402 Average Depth: 2 feet	< 50	< 2.5	14.70	23.40	< 25	21

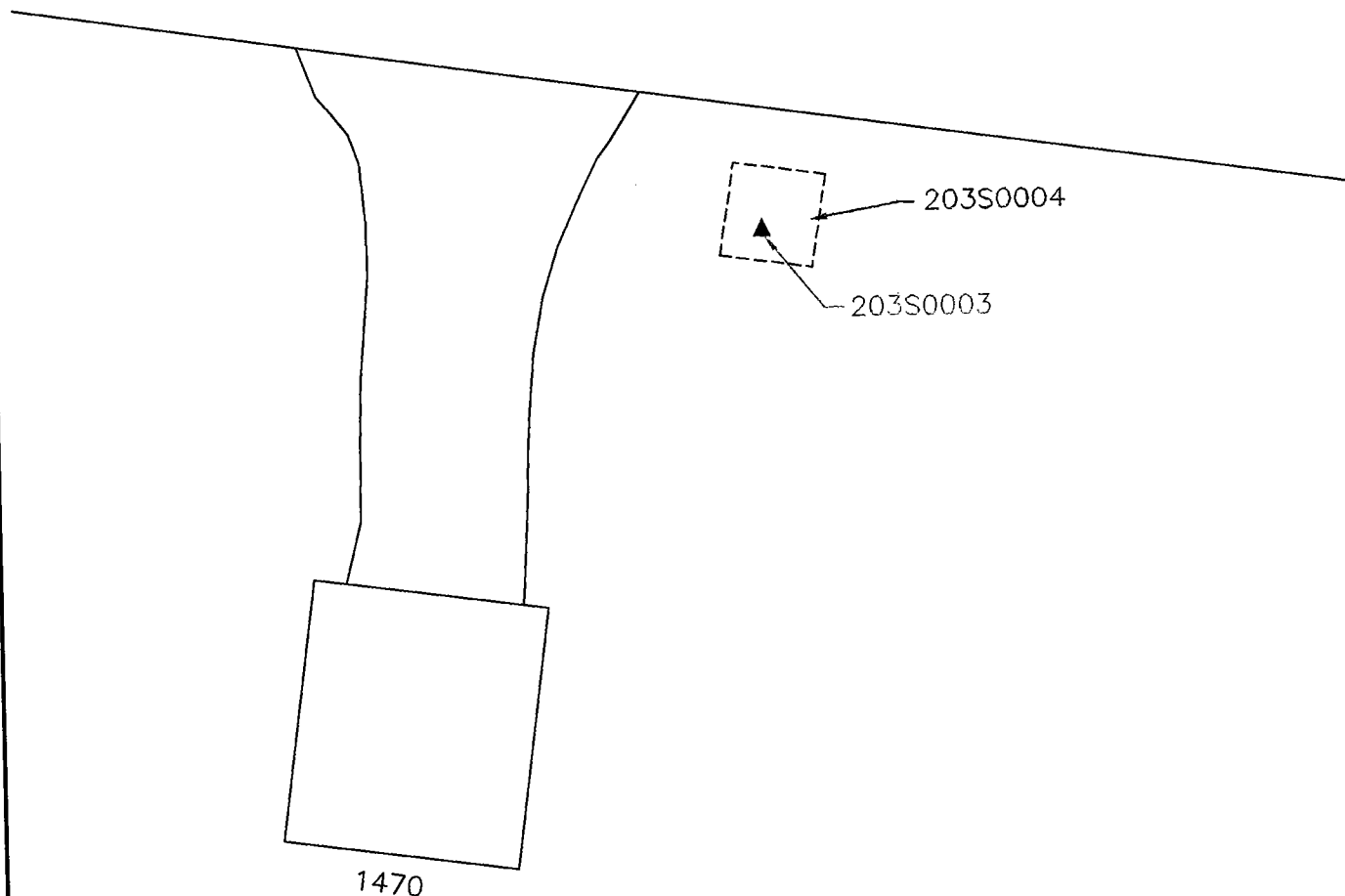
**Note:**

TPH = Total Petroleum Hydrocarbons

### 3.8.3 Sample Results

Following excavation, confirmation soil samples were collected from the Facility S-203 excavation area for Appendix IX metals and TPH analyses. Table 3.7 lists the confirmation sampling results, which can be compared with the NSA Mid-South RC in the top row. Sample locations are shown on Figure 3.8. One, five-part composite sample was collected from the excavation bottom and walls for confirmation soil-metals and TPH analyses. The arsenic and cadmium results were less than their respective laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium exceed their RCs, as discussed in Section 2.2. All remaining metals analyzed in the composite soil sample collected from location 203S000402 were less than their respective RCs and cleanup levels. All confirmation TPH results were less than the applicable cleanup level. Laboratory reports and associated chain-of-custody forms are presented in Appendix A of this report.

The excavation was backfilled with clean fill after the soil was removed, and the surface was seeded and fertilized. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.



10 0 10

SCALE FEET

#### LEGEND

- ▲ - DPT SAMPLING LOCATION
- 203S0004 - CONFIRMATION 5-PART COMPOSITE SAMPLING LOCATION
- - EXCAVATION AREA



VCA REPORT  
CONTAMINATED SOIL  
REMOVAL  
NSA MID-SOUTH  
MILLINGTON, TN.

FIGURE 3.8  
FACILITY S-203  
SOIL REMOVAL AND SAMPLING MAP

DWG DATE: 12/21/00 DWG NAME: 0146W007

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On May 4, 2000, EnSafe personnel sampled the soil stockpile for TCLP metals and  
benzene analyses. The results were submitted to NSA Mid-South PWD Environmental Division,  
which then transferred them to the Corps. The Corps submitted applications with the  
TCLP results to the TDEC DSW Management and Allied Waste for disposal approval. Upon  
approval, the Corps transported the petroleum-contaminated soil to Allied Waste in  
Millington, Tennessee, for disposal. Copies of the disposal manifests for S-203 and other  
NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.

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### 3.9 SWMU 41 — Salvage Yard No. 2

#### 3.9.1 Site Description

SWMU 41 is an approximately 5,700-square-yard, asphalt-covered storage yard (Salvage Yard No. 2), designated as a nonhazardous storage area, near the southwest corner of the NSA Mid-South Southside (Figure 1.1). The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999).

One area was addressed during the SWMU 41 soil removal: DPT soil sample location 041S0012, which was previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1- foot-depth interval. Therefore, this area was excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

#### 3.9.2 Removal Activities

The soil-removal area was excavated to dimensions of 5 by 5 feet and a depth of 2 feet bls (Figure 3.9), as indicated in the *VCA Work Plan* (EnSafe, June 1999). The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that soil in the excavation had concentrations of TPH that were less than the applicable cleanup level (100 mg/kg). Approximately 2 cubic yards of soil were removed from the area and transported to the grassy area adjacent to the west side of Building S-203 where it was staged on plastic, covered with plastic, and then bermed with straw for temporary storage. Table 3.8 displays the confirmation sampling results, locations, depths, and RCs.

Table 3.8 SWMU 41 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
Former sample location 041S0012 Sample ID: 041S001302 Average Depth: 2 feet	<50	<2.5	14.40	15.30	<25	2

**Notes:**

TPH = Total Petroleum Hydrocarbons  
 NA = Not Applicable

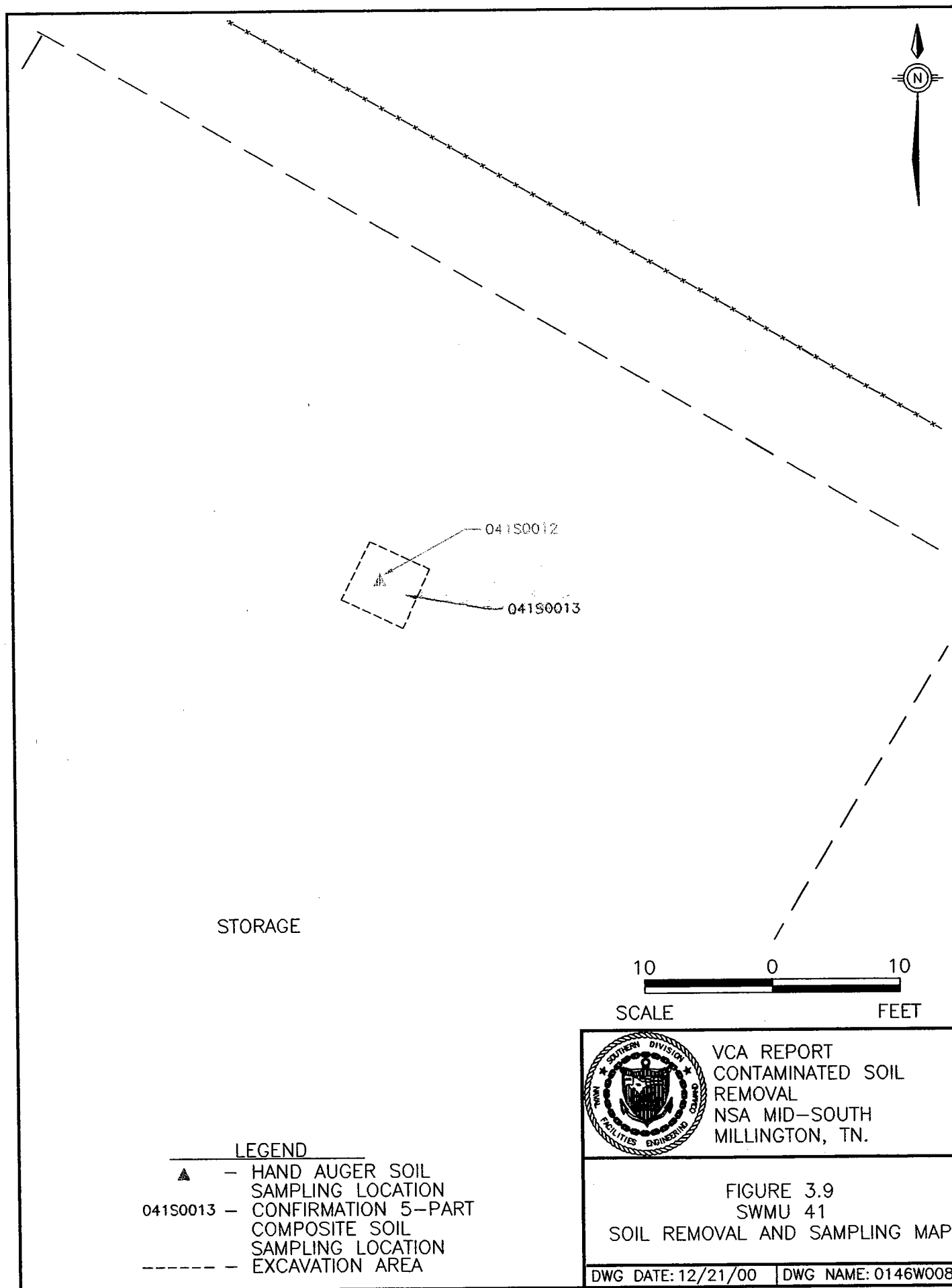


### 3.9.3 Sample Results

Following excavation, confirmation soil samples were collected from the SWMU 41 excavation area for Appendix IX metals and TPH analyses. Table 3.8 lists the confirmation-sampling results, which can be compared with the NSA Mid-South RCs in the top row. Sample locations are shown on Figure 3.9. One, five-part composite sample was collected from the excavation bottom and sidewalls. Arsenic and cadmium results were less than their laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium exceed their RCs, as discussed in Section 2.2. Concentrations of all remaining metals analyzed in the composite soil sample collected from location 041S0013 were less than their applicable RCs and cleanup levels. All confirmation TPH results were less than the applicable cleanup level (100 mg/kg). Laboratory reports and associated chain-of-custody forms are presented in Appendix A of this report.

The excavation was backfilled with clean fill after the soil was removed. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.

On May 4, 2000, EnSafe personnel sampled the soil stockpile for TCLP metals and benzene analyses. The results were submitted to NSA Mid-South PWD Environmental Division, which then transferred them to the Corps. The Corps submitted applications with the TCLP results to the TDEC DSW Management and Allied Waste for disposal approval. Upon approval, the Corps transported the petroleum-contaminated soil to Allied Waste in Millington, Tennessee, for disposal. Copies of the disposal manifests for SWMU 41 and other NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.



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### 3.10 SWMU 43 — Former Hazardous Waste Accumulation Point

#### 3.10.1 Site Description

SWMU 43 is a former hazardous waste accumulation point along the west side of former Building S-176 on the NSA Mid-South Southside (Figure 1.1). The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan*.

One area was addressed during the SWMU 41 soil removal: DPT soil sample location 043S0002, which was previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1-foot and 3- to 4-foot depth intervals. Therefore, this area was excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

#### 3.10.2 Removal Activities

The soil-removal area was excavated to dimensions of 5 by 5 feet and a depth of 4 feet bls (Figure 3.10), as indicated in the *VCA Work Plan* (EnSafe, June 1999). The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that soil in the excavation contained petroleum concentrations that were less than the applicable cleanup level. Approximately 4 cubic yards of soil were removed from the area and transported to the grassy area adjacent to the west side of Building S-203, where it was staged on plastic, covered with plastic, and then bermed with straw for temporary storage. Table 3.9 displays the confirmation sampling results, sample IDs, locations, depths, and RCs for metals.

Table 3.9 SWMU 43 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
Former sample location 043S0004 Sample ID: 041S000404 Average Depth: 4 feet	< 50	< 2.5	20.80	15.00	< 25	9

**Notes:**

TPH = Total Petroleum Hydrocarbons  
 NA = Not Applicable

### 3.10.3 Sample Results

Following excavation, confirmation soil samples were collected from the SWMU 43 excavation area for Appendix IX metals and TPH analyses. Table 3.9 lists the confirmation sampling results, which can be compared with the NSA Mid-South RC in the top row. Sample locations are shown on Figure 3.10. One, five-part composite sample was collected from the excavation for confirmation metals and TPH analyses. The composite samples included soils from the excavation bottom and sidewalls. Arsenic and cadmium results were less than their laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium exceed their RCs, as discussed in Section 2.2. The remaining soil metals results were less than their respective RCs. All confirmation TPH results were less than the applicable cleanup level (100 mg/kg). Laboratory reports and associated chain-of-custody forms are presented in Appendix A of this report.

The excavation was backfilled with clean fill after the soil was removed. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.

On May 9, 2000, EnSafe personnel sampled the soil stockpile for TCLP metals and benzene analyses. The results were submitted to NSA Mid-South PWD Environmental Division, which then transferred them to the Corps. The Corps submitted applications with the TCLP results to the TDEC DSW Management and Allied Waste for disposal approval. Upon approval, the Corps transported the petroleum-contaminated soil to Allied Waste in Millington, Tennessee, for disposal. Copies of the disposal manifests for SWMU 43 and other NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.



043S0002  
043S0004

G STREET

20 0 20  
SCALE FEET



VCA REPORT  
CONTAMINATED SOIL  
REMOVAL  
NSA MID-SOUTH  
MILLINGTON, TN.

LEGEND

-  - HAND AUGER SAMPLING LOCATION
- 043S0004 - CONFIRMATION 5-PART COMPOSITE SOIL SAMPLING LOCATION
- - EXCAVATION AREA

FIGURE 3.10  
SWMU 43 - FORMER S-176  
SOIL REMOVAL AND SAMPLING MAP

DWG DATE: 12/21/00 | DWG NAME: 0146W009

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### 3.11 SWMU 47 — Former Hazardous Waste Accumulation Point

#### 3.11.1 Site Description

SWMU 47 is a former hazardous waste accumulation point on the south side of Building S-344 (former Seabees Compound), which is in the southwest corner of the NSA Mid-South Southside at the west end of Ticonderoga Street. The SWMU is a concrete pad area that abuts Building S-344 and joins a concrete wash rack. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999). Figure 1.1 (shown earlier) depicts the location of SWMU 47.

Two areas were addressed during the SWMU 47 soil removal: DPT soil sample locations 047S0002 and 047S0006, which were previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1-foot-depth interval. Therefore, these areas were excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

#### 3.11.2 Removal Activities

Both SWMU 47 soil-removal areas, the areas of DPT sample locations 047S0002 and 047S0006, were excavated on September 9, 1999, to dimensions of 5 feet square and 2 feet bls (Figure 3.11), as indicated in the *VCA Work Plan* (EnSafe, June 1999). The excavated soil was not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that the soil in the excavations contained concentrations of petroleum that were less than the established cleanup level (100 mg/kg). Approximately 3 cubic yards of soil were removed from each area and staged adjacent to the east side of Building S-344. The material was staged on plastic, covered with plastic, and then bermed with straw for temporary storage. Table 3.10 displays the confirmation sampling results, sample IDs, locations, depths, and RCs.



Table 3.10 SWMU 47 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TN-EPH
	14.70	1.54	23.90	24.20	26.00	NA
Former sample location 047S0006 Sample ID: 047SBOTE04 Average Depth: 2 feet	10.20	<0.57	4.93	12.50	8.96	10
Former sample location 047S0002 Sample ID: 047SBOTW04 Average Depth: 2 feet	7.57	<0.57	9.59	0.03	6.77	13

**Notes:**

TPH = Total Petroleum Hydrocarbons

NA = Not Applicable

### 3.11.3 Sample Results

Following excavation, confirmation soil samples were collected from each of the SWMU 47 excavation areas for Appendix IX metals and TPH analyses. Table 3.10 lists the confirmation-sampling results, which can be compared with the NSA Mid-South RC in the top row. Sample locations are shown on Figure 3.11. One, five-part composite sample was collected from each excavation for confirmation metals and TPH-EPH analyses. The composite samples included soils from the excavation bottom and sidewalls. Results of analyses of the composite samples collected from locations 047SBOTE04 (former DPT sample location 047S0006) and 047BOTW04 (former DPT sample location 047S0002) were less than the RC for metals and the cleanup level for TPH. Laboratory reports and associated chain-of-custody forms are presented in Appendix A of this report.

The excavations were backfilled with clean fill after the soil was removed, and the surface was seeded and fertilized. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.



SEA BEES

344

047SB0TW

047S0002

047SB0TE

047S0006

PUMP  
HOUSE

LEGEND

- ▲ - HAND AUGER SOIL SAMPLING LOCATION
- 047SB0TW - CONFIRMATION 5-PART COMPOSITE SOIL SAMPLING LOCATION
- - - EXCAVATION AREA

FENCE

CREEK

20 0 20  
SCALE FEET



VCA REPORT  
CONTAMINATED SOIL  
REMOVAL  
NSA MID-SOUTH  
MILLINGTON, TN.

FIGURE 3.11  
SWMU 47  
FORMER SEA BEES COMPOUND  
SOIL REMOVAL AND SAMPLING MAP

DWG DATE: 12/21/00 DWG NAME: 0146W016

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On January 21, 2000, EnSafe personnel sampled the soil stockpile for TCLP metals and  
benzene analyses. Disposal applications, including the TCLP results, were submitted to the  
TDEC DSW Management and Allied Waste for disposal approval. Upon approval, the Corps  
transported the petroleum-contaminated soil to Allied Waste in Millington, Tennessee,  
for disposal. Copies of the disposal manifests for SWMU 47 and other NSA Mid-South  
petroleum-contaminated soil removal sites are included in Appendix C.

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### 3.12 SWMU 48 — Hazardous Waste Accumulation Points

#### 3.12.1 Site Description

SWMU 48 is located on the NSA Mid-South Southside and consists of various inactive hazardous waste accumulation points for containerized paint thinner and degreasing agents on the service (west) side of the Building S-9 complex, just outside overhead doors to work bays. The site, previous sampling results, and site histories and investigations are detailed in the *VCA Work Plan* (EnSafe, June 1999). Figure 1.1 (shown earlier) depicts the location of SWMU 48.

Four areas were addressed during the SWMU 48 soil removal: DPT soil sample locations 048S0001 to 048S0004, which were previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 0- to 1-foot-depth interval. DPT sample locations 048S0001, 048S0002, and 048S0004 also were previously identified as containing soil with petroleum concentrations exceeding 100 mg/kg TPH from the 3- to 4-foot depth interval. Therefore, these areas were excavated following the protocol established in the *VCA Work Plan* (EnSafe, June 1999).

#### 3.12.2 Removal Activities

All four soil-removal areas were excavated from June 15 to 19, 2000, to dimensions of 6 feet wide by 6 feet long, by 5 feet deep, as indicated in the *VCA Work Plan* (EnSafe, June 1999). The excavated soils were not visibly stained and had no petroleum odor. The TPH analyzer was used to confirm that concentrations of petroleum in soil in the excavation were less than applicable cleanup levels (100 mg/kg). Approximately 7 cubic yards of soil were removed from each excavation area and transported to the grassy area adjacent to the west side of Building S-203, where it was staged on plastic, covered with plastic, and then bermed with straw for temporary storage. Table 3.11 displays the confirmation sampling results, sample IDs, depths, and RCs for metals.

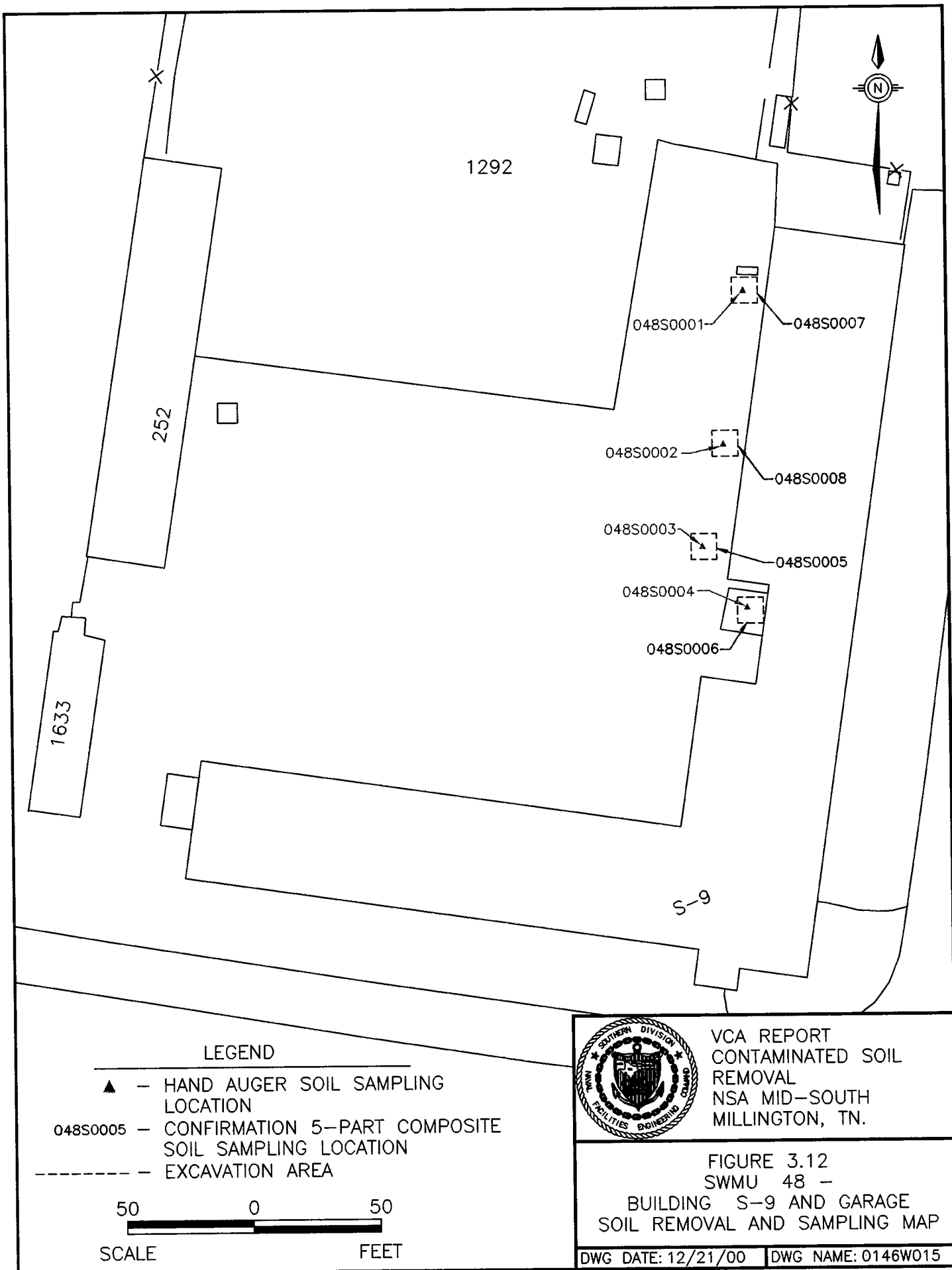
Table 3.11 SWMU 48 — Confirmation Sampling Results (in mg/kg)						
Location	Reference Concentration Values					
	Arsenic	Cadmium	Chromium	Copper	Lead	TPH (IR)
	14.70	1.54	23.90	24.20	26.00	NA
Former sample location 048S0003 Sample ID: 048S000505 Average Depth: 5 feet	<50	<2.5	14.30	13.20	<25	7
Former sample location 048S0004 Sample ID: 048S000605 Average Depth: 5 feet	<50	<2.5	14.10	16.90	<25	6
Former sample location 048S0001 Sample ID: 048S000705 Average Depth: 5 feet	<50	<2.5	18.80	<b>24.60</b>	<25	<1
Former sample location 048S0002 Sample ID: 048S000805 Average Depth: 5 feet	<50	<2.5	12.40	18.50	<25	<1

**Notes:**

**Bold** = Exceeds RC  
 TPH = Total Petroleum Hydrocarbons  
 NA = Not Applicable

### 3.12.3 Sample Results

Following excavation, confirmation soil samples were collected from each of the SWMU 48 excavation areas for Appendix IX metals and TPH analyses. Table 3.11 lists the confirmation sampling results, which can be compared with the NSA Mid-South RC in the top row. Sample locations are shown on Figure 3.12. One, five-part composite sample was collected from each excavation for confirmation metals and TPH analyses. The composite samples included soils from the excavation bottom and sidewalls. Results of analyses of the composite sample collected from location 048S0007 exceeded the RC for copper (24.2 mg/kg). However, copper concentrations were less than its industrial (8,200 mg/kg) and residential (310 mg/kg) RBCs. All arsenic and cadmium results were less than their respective laboratory detection limits. However, the laboratory detection limits for arsenic and cadmium are greater than their RCs, as discussed in Section 2.2. In all remaining samples, soil-metals





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results were less than their RCs. All confirmation TPH results were less than the applicable cleanup level. Laboratory reports are provided in Appendix A of this report.

The excavation was backfilled with clean fill after the soil was removed, and new concrete and asphalt were laid back in the area from which it was removed. Temporary fencing and barricades were placed around the excavation during all excavation and construction activities.

On June 27, 2000, EnSafe personnel sampled the soil stockpile for TCLP metals and benzene analyses. The results were submitted to NSA Mid-South PWD Environmental Division, which then transferred them to the Corps. The Corps submitted applications with the TCLP results to the TDEC DSW Management and Allied Waste for disposal approval. Upon approval, the Corps transported the petroleum-contaminated soil to Allied Waste in Millington, Tennessee, for disposal. Copies of the disposal manifests for SWMU 48 and other NSA Mid-South petroleum-contaminated soil removal sites are included in Appendix C.

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### **3.13 SWMU 49 — Navy Exchange Service Station**

SWMU 49, the Navy Exchange (NEX) Service Station, is located approximately 150 feet north of Navy Road on the former NSA Mid-South Northside. The NEX was operational, but beginning the decommissioning process during the VCA soil removals. NSA Mid-South plans to demolish all structures on the NEX property. The SWMU 49 VCA removal will be conducted after demolition of the NEX Service Station and the results will be submitted to the BCT at a later date.

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### **3.14 Geophysical Investigation of the Area Southwest of Building S-235**

#### **3.14.1 Site Description**

The area southwest of Building S-235 on the NSA Mid-South Southside is an open grassy area suspected of containing USTs. A geophysical study conducted in December 1999 identified several underground anomalies in the open area, indicating several areas of buried metals. Geophysical investigation methodology, site maps, equipment descriptions, and results are detailed in the *Geophysical Investigation of the Area Southwest of Building S-235* included in Appendix D of this report.

#### **3.14.2 Removal Activities**

Under the direction of the NSA Mid-South PWD Environmental Division, the Corps conducted exploratory digging in the area around anomalies B1 and C2a. A figure showing the anomalies is located in Appendix D. Aluminum runway matting was discovered throughout the excavation process at varying depths. No evidence of USTs, UST piping, or petroleum-contaminated soil was identified during the exploration process. Therefore, the soil was placed back in the excavation and the area was seeded, fertilized, and covered with straw.

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#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on analytical results for confirmation samples collected after the soil removals at the above-mentioned SWMUs and facilities, the VCA objectives were met. Soil analytical results for metals were less than the RC for NSA Mid-South, and industrial and residential RBCs. However, the cadmium laboratory detection limit (2.5 mg/kg) used for this VCA was higher than the RC (1.54 mg/kg) for NSA Mid-South. Therefore, RC exceedances could not be determined for cadmium soil concentrations. However, cadmium concentrations were less than both RBCs in all samples collected. The arsenic laboratory detection limit (50 mg/kg) used for this VCA was higher than the RC (14.7 mg/kg) for NSA Mid-South, and both residential (0.43 mg/kg) and industrial (3.8 mg/kg) RBCs. Therefore, RC and residential and industrial RBC exceedences could not be determined for arsenic soil concentrations. However, all arsenic samples collected during this VCA were less than the laboratory detection limit of 50 mg/kg.

TPH concentrations were less than the TDEC cleanup criteria of 500 mg/kg, and less than the NSA Mid-South PWD Environmental Division requested 100 mg/kg levels for soils from land surface to 5 feet in depth. Therefore, no further action is requested for this facility.

The SWMU 49 Navy Exchange Service Station removal will be conducted at a later date after the buildings have been demolished.



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## 5.0 REFERENCES

- EnSafe/Allen & Hoshall. (October 1994). *Comprehensive RFI Work Plan for Naval Air Station Memphis*. E/A&H: Memphis, Tennessee.
- EnSafe/Allen & Hoshall. (August 27, 1996). *Technical Memorandum — Reference Concentrations*. E/A&H: Memphis, Tennessee.
- EnSafe. (February 2, 1998). *Assembly E RCRA Facility Investigation (RFI) Report*. EnSafe: Memphis, Tennessee.
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- EnSafe. (June 9, 1999). *Voluntary Corrective Action Work Plan*. EnSafe: Memphis, Tennessee.
- EnSafe. (May 13, 1999). *ERNA Gray Areas Investigation Report*.
- TDEC. (1997). *Policy Statement for Petroleum Contaminated Sites*. TDEC.
- United States Environmental Protection Agency. (May 1996). *USEPA/OWSER Soil Screening Guidance: Technical Background Document, EPA/540/R-95/128*. USEPA: Philadelphia, Pennsylvania.
- United States Environmental Protection Agency. (April 12, 1999). *EPA Region III Risk-Based Concentration Table*. USEPA: Philadelphia, Pennsylvania.

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**Appendix A**  
**Laboratory Results**

NSA MID-SOUTH  
VOLUNTARY CORRECTIVE ACTION

APX9-METAL		SAMPLE ID ----->	024-S-0007-08	024-S-0008-03	024-S-0009-02	024-S-0010-02	024-S-0011-02	024-S-0012-02
		ORIGINAL ID ----->	024S000708	024S000803	024S000902	024S001002	024S001102	024S001202
		LAB SAMPLE ID ---->	000532401	000532402	000536801	000536802	000536803	000543401
		ID FROM REPORT -->	024S000708	024S000803	024S000902	024S001002	024S001102	024S001202
		SAMPLE DATE ----->	05/11/00	05/11/00	05/12/00	05/12/00	05/12/00	05/16/00
		DATE EXTRACTED -->	05/12/00	05/12/00	05/15/00	05/15/00	05/15/00	05/18/00
		DATE ANALYZED -->	05/15/00	05/15/00	05/15/00	05/15/00	05/15/00	05/18/00
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		0005324	0005324	0005368	0005368	0005368	0005434
7440-36-0	Antimony	5. U	5. U	5. U	5. U	5. U	5. U	5. U
7440-38-2	Arsenic	50. U	50. U	50. U	50. U	50. U	50. U	50. U
7440-39-3	Barium	125.	132.	129.	168.	169.	130.	0.556
7440-41-7	Beryllium	0.438	0.462	0.496	0.487	0.404	2.5 U	2.5 U
7440-43-9	Cadmium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
7440-47-3	Chromium	14.2	12.3	15.	15.4	12.5	14.6	9.18
7440-48-4	Cobalt	7.04	6.48	6.92	7.37	6.23	21.5	25. U
7440-50-8	Copper	15.9	16.6	16.8	16.3	13.8	25. U	0.03
7439-92-1	Lead	25. U	25. U	25. U	25. U	25. U	25. U	21.1
7439-97-6	Mercury	0.02 U	0.02 U	0.024	0.022	0.02 U	0.02 U	50. U
7440-02-0	Nickel	20.1	19.9	18.	20.8	17.	21.1	50. U
7782-49-2	Selenium	50. U	50. U	50. U	50. U	50. U	50. U	1. U
7440-22-4	Silver	1. U	1. U	1. U	1. U	1. U	1. U	25. U
7440-28-0	Thallium	25. U	25. U	25. U	25. U	25. U	25. U	125. U
7440-31-5	Tin	125. U	125. U	125. U	125. U	125. U	125. U	24.4
7440-62-2	Vanadium	20.1	18.7	21.6	22.3	18.6	24.4	62.
7440-66-6	Zinc	57.9	61.4	53.	56.6	46.7		

NSA MID-SOUTH  
VOLUNTARY CORRECTIVE ACTION

APX9-METAL		SAMPLE ID ----->	024-S-0013-02	024-S-0014-04	041-S-0013-02	043-S-0004-04	048-S-0005-05	048-S-0006-05
		ORIGINAL ID ----->	024S001302	024S001404	041S001302	043S000404	048S000505	048S000605
		LAB SAMPLE ID ---->	000543402	000543403	000477301	000524101	000649901	000649902
		ID FROM REPORT -->	024S001302	024S001404	041S001302	043S000404	048S000505	048S000605
		SAMPLE DATE ----->	05/16/00	05/16/00	04/27/00	05/09/00	06/15/00	06/15/00
		DATE EXTRACTED -->	05/18/00	05/18/00	05/05/00	05/12/00		
		DATE ANALYZED ---->	05/18/00	05/18/00	05/08/00	05/15/00	06/22/00	06/22/00
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		0005434	0005434	0004773	0005241	0006499	0006499
7440-36-0	Antimony	5. U	5. U	5. U	5. U	5. U	5. U	5. U
7440-38-2	Arsenic	50. U	50. U	50. U	50. U	50. U	50. U	50. U
7440-39-3	Barium	187.	112.	177.	237.	71.8	105.	
7440-41-7	Beryllium	0.476	0.43	0.598	0.781	0.407	0.546	
7440-43-9	Cadmium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
7440-47-3	Chromium	13.2	13.5	14.4	20.8	14.3	14.1	
7440-48-4	Cobalt	7.73	6.94	7.67	7.41	5.79	9.86	
7440-50-8	Copper	18.4	17.	15.3	15.	13.2	16.9	
7439-92-1	Lead	25. U	25. U	25. U	25. U	25. U	25. U	25. U
7439-97-6	Mercury	0.02	0.02 U	0.035	0.037	0.038	0.034	
7440-02-0	Nickel	20.1	19.1	17.2	20.1	10.	12.1	
7782-49-2	Selenium	50. U	50. U	50. U	50. U	50. U	50. U	50. U
7440-22-4	Silver	1. U	1. U	1. U	1. U	1. U	1. U	1. U
7440-28-0	Thallium	25. U	25. U	25. U	25. U	25. U	25. U	25. U
7440-31-5	Tin	125. U	125. U	125. U	125. U	125. U	125. U	125. U
7440-62-2	Vanadium	21.4	21.6	18.4	21.	22.8	23.7	
7440-66-6	Zinc	57.5	50.2	56.5	56.2	41.6	51.1	

NSA MID-SOUTH  
VOLUNTARY CORRECTIVE ACTION

APX9-METAL		SAMPLE ID ----->	048-S-0007-05	048-S-0008-05	065-S-0032-10	065-S-0033-08	065-S-0034-02	109-S-0003-02
		ORIGINAL ID ----->	048S000705	048S000805	065S003210	065S003308	065S003402	109S000302
		LAB SAMPLE ID ---->	000653701	000653702	000331101	000342803	000354501	000377501
		ID FROM REPORT -->	048S000705	048S000805	065S003210	065S003308	065S003402	109S000302
		SAMPLE DATE ----->	06/19/00	06/19/00	03/10/00	03/14/00	03/17/00	03/28/00
		DATE EXTRACTED -->			03/13/00	03/29/00	03/29/00	03/29/00
		DATE ANALYZED ----->	06/22/00	06/22/00	03/14/00	03/30/00	03/30/00	03/30/00
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		0006537	0006537	0003311	0003428	0003545	0003775
7440-36-0	Antimony	5. U		5. U	5. U	5. U	5. U	5. U
7440-38-2	Arsenic	50. U		50. U	50. U	50. U	50. U	50. U
7440-39-3	Barium	124.		92.2	203.	251.	248.	173.
7440-41-7	Beryllium	0.635		0.648	0.71	0.622	0.724	0.633
7440-43-9	Cadmium	2.5 U		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
7440-47-3	Chromium	18.8		12.4	21.7	22.2	24.1	16.5
7440-48-4	Cobalt	8.79		8.58	6.6	8.2	7.62	9.19
7440-50-8	Copper	24.6		18.5	17.8	18.4	19.9	26.6
7439-92-1	Lead	25. U		25. U	25. U	25. U	25. U	25. U
7439-97-6	Mercury	0.029		0.021	0.03	0.029	0.03	0.037
7440-02-0	Nickel	16.		14.3	20.	25.9	21.9	25.4
7782-49-2	Selenium	50. U		50. U	50. U	50. U	50. U	50. U
7440-22-4	Silver	1. U		1. U	1. U	1. U	1. U	1. U
7440-28-0	Thallium	25. U		25. U	25. U	25. U	25. U	25. U
7440-31-5	Tin	125. U		125. U	125. U	125. U	125. U	125. U
7440-62-2	Vanadium	29.7		4. U	28.2	26.6	29.5	27.9
7440-66-6	Zinc	60.5		2.5 U	62.9	74.	70.2	83.2

NSA MID-SOUTH  
VOLUNTARY CORRECTIVE ACTION

APX9-METAL		SAMPLE ID ----->	114-S-0002-03	203-S-0004-02	235-S-0NEC-03	235-S-0NWC-03	235-S-0SEC-05	235-S-0SWC-05
		ORIGINAL ID ----->	114S000203	203S000402	235S0NEC03	235S0NWC03	235S0SEC05	235S0SWC05
		LAB SAMPLE ID ---->	000539801	000390001	990942305	990942306	990942307	990942308
		ID FROM REPORT --->	114S000203	203S000402	235S0NEC03	235S0NWC03	235S0SEC05	235S0SWC05
		SAMPLE DATE ----->	05/15/00	03/31/00	09/14/19	09/14/19	09/14/19	09/14/19
		DATE EXTRACTED -->	05/16/00	04/10/00	09/16/19	09/16/19	09/16/19	09/16/19
		DATE ANALYZED ---->	05/16/00	04/10/00	09/20/19	09/20/19	09/20/19	09/20/19
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		0005398	0003900	9909423	9909423	9909423	9909423
7440-36-0	Antimony	5. U	5. U	5. U	5. U	5. U	5. U	5. U
7440-38-2	Arsenic	50. U	50. U	50. U	6.1 J	7.14 J	12.5 J	13.4 J
7440-39-3	Barium	192.	136.	157.	142.	330.	145.	145.
7440-41-7	Beryllium	0.541	0.705	0.584	0.607	1.07	0.745	0.745
7440-43-9	Cadmium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.658 J	0.658 J
7440-47-3	Chromium	14.	14.7	9.52	12.3	21.7	16.8	16.8
7440-48-4	Cobalt	8.23	7.59	7.88	4.26	5.68	7.21	7.21
7440-50-8	Copper	22.5	23.4 B	9.73	11.5	19.6	16.6	16.6
7439-92-1	Lead	75.8	25. U	7.62 J	9.79 J	33.4	13.5 J	13.5 J
7439-97-6	Mercury	0.035	0.02 U	0.028	0.028	0.025	0.021	0.021
7440-02-0	Nickel	23.	15.8	11.2	11.5	17.9	10.7	10.7
7782-49-2	Selenium	50. U	50. U	50. U	50. U	50. U	50. U	50. U
7440-22-4	Silver	1. U	1. U	1. U	1. U	1. U	1. U	1. U
7440-28-0	Thallium	25. U	25. U	25. U	25. U	25. U	25. U	25. U
7440-31-5	Tin	125. U	125. U	125. U	125. U	125. U	125. U	125. U
7440-62-2	Vanadium	22.6	16.6	10.9	11.	31.3	24.7	24.7
7440-66-6	Zinc	79.6	55.8 B	46.4	48.4	85.4	42.6	42.6



NSA MID-SOUTH  
VOLUNTARY CORRECTIVE ACTION

APX9-METAL		SAMPLE ID ----->	235-S-EWAL-03	235-S-NWAL-03	235-S-SWAL-03	235-S-WWAL-03	394-S-0004-01	
		ORIGINAL ID ----->	235SEWAL03	235SNWAL03	235SSWAL03	235SWWAL03	394S000401	
		LAB SAMPLE ID ---->	990942301	990942304	990942303	990942302	000524103	
		ID FROM REPORT -->	235SEWAL03	235SNWAL03	235SSWAL03	235SWWAL03	394S000401	
		SAMPLE DATE ----->	09/14/19	09/14/19	09/14/19	09/14/19	05/09/00	
		DATE EXTRACTED -->	09/16/19	09/16/19	09/16/19	09/16/19	05/12/00	
		DATE ANALYZED -->	09/20/19	09/20/19	09/20/19	09/20/19	05/15/00	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
CAS #	Parameter		9909423	9909423	9909423	9909423	0005241	
7440-36-0	Antimony	5. U	5. U	5. U	5. U	5. U	5. U	
7440-38-2	Arsenic	6.72 J	6.9 J	9.27 J	50. U	50. U	50. U	
7440-39-3	Barium	130.	110.	115.	126.	98.4		
7440-41-7	Beryllium	0.528	0.422	0.462	0.399	0.453		
7440-43-9	Cadmium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U		
7440-47-3	Chromium	11.1	10.5	10.7	9.06	19.2		
7440-48-4	Cobalt	2.97	2.74	5.47	4.25	7.95		
7440-50-8	Copper	12.4	9.82	11.9	10.6	10.4		
7439-92-1	Lead	9.98 J	8.73 J	8.49 J	44.8	27.6		
7439-97-6	Mercury	0.027	0.029	0.028	0.026	0.024		
7440-02-0	Nickel	6.12	6.17	7.34	7.81	11.8		
7782-49-2	Selenium	50. U	50. U	50. U	50. U	50. U		
7440-22-4	Silver	1. U	1. U	1. U	1. U	1. U		
7440-28-0	Thallium	25. U	25. U	25. U	25. U	25. U		
7440-31-5	Tin	125. U	125. U	125. U	125. U	125. U		
7440-62-2	Vanadium	12.	12.3	13.7	11.	27.7		
7440-66-6	Zinc	64.	40.5	44.8	47.3	47.2		

NSA MID-SOUTH  
VOLUNTARY CORRECTIVE ACTION

RCRA METAL		SAMPLE ID ----->	065-S-0031-02	174-S-0050-01	174-S-0060-01	174-S-0070-01	174-S-0080-01	
		ORIGINAL ID ----->	065S003102	174S00501	174S00601	174S00701	174S00801	
		LAB SAMPLE ID ---->	000328001	000307701	000307702	000307703	000307704	
		ID FROM REPORT -->	065S003102	174S00501	174S00601	174S00701	174S00801	
		SAMPLE DATE ----->	03/08/00	03/01/00	03/01/00	03/01/00	03/01/00	
		DATE EXTRACTED -->	03/13/00	03/09/00	03/09/00	03/09/00	03/09/00	
		DATE ANALYZED ---->	03/14/00	03/09/00	03/09/00	03/09/00	03/09/00	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
CAS #	Parameter		0003280	0003077	0003077	0003077	0003077	
7440-22-4	Silver	1. U	1. U	1. U	1. U	1. U	1. U	
7440-47-3	Chromium	5.72	13.5	15.7	10.8	15.		
7440-39-3	Barium	34.8	134.	138.	79.5	95.		
7440-43-9	Cadmium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U		
7439-92-1	Lead	25. U	27.3	25. U	25. U	50.4		
7440-38-2	Arsenic	50. U	50. U	50. U	50. U	50. U		
7782-49-2	Selenium	50. U	50. U	50. U	50. U	50. U		
7439-97-6	Mercury	0.022	0.033	0.027	0.035	0.02 U		
7440-50-8	Copper	4.88	NR	NR	NR	NR		
7440-41-7	Beryllium	0.219	NR	NR	NR	NR		
7440-31-5	Tin	125. U	NR	NR	NR	NR		
7440-28-0	Thallium	25. U	NR	NR	NR	NR		
7440-66-6	Zinc	41.5	NR	NR	NR	NR		
7440-36-0	Antimony	5. U	NR	NR	NR	NR		
7440-02-0	Nickel	5.57	NR	NR	NR	NR		
7440-62-2	Vanadium	9.07	NR	NR	NR	NR		
7440-48-4	Cobalt	3.04	NR	NR	NR	NR		

DATALCP3  
12/13/00

NSA MID-SOUTH  
VOLUNTARY CORRECTIVE ACTION  
SWMU 47

Page: 1  
Time: 13:45

METAL		SAMPLE ID ----->	047-S-BOTE-04	047-S-BOTW-04			
		ORIGINAL ID ----->	047SBOTE04	047SBOTW04			
		LAB SAMPLE ID ---->	9910468-01	9910468-02			
		ID FROM REPORT -->	047SBOTE04	047SBOTW04			
		SAMPLE DATE ----->	10/19/99	10/19/99			
		DATE ANALYZED ---->	10/28/99	10/28/99			
		MATRIX ----->	Soil	Soil			
		UNITS ----->	MG/KG	MG/KG			
CAS #	Parameter		9910468	9910468			
7440-36-0	Antimony	5. U	5. U				
7440-38-2	Arsenic	10.2 J	7.57 J				
7440-39-3	Barium	117.	110.				
7440-41-7	Beryllium	0.395	0.348				
7440-43-9	Cadmium	2.5 U	2.5 U				
7440-47-3	Chromium	10.4	9.59				
7440-48-4	Cobalt	4.93	4.45				
7440-50-8	Copper	12.5	9.78				
7439-92-1	Lead	8.96 J	6.77 J				
7439-97-6	Mercury	0.035	0.029				
7440-02-0	Nickel	12.1	10.1				
7782-49-2	Selenium	50. U	50. U				
7440-22-4	Silver	1. U	1. U				
7440-28-0	Thallium	25. U	25. U				
7440-31-5	Tin	125. U	125. U				
7440-62-2	Vanadium	14.6	13.3				
7440-66-6	Zinc	43.1	37.				

DATALCP3  
12/13/00

NSA MID-SOUTH  
VOLUNTARY CORRECTIVE ACTION  
SWMU 47

Page: 2  
Time: 13:45

TN TPH		SAMPLE ID -----> 047-S-BOTE-04	047-S-BOTW-04				
		ORIGINAL ID -----> 047SBOTE04	047SBOTW04				
		LAB SAMPLE ID ----> 9910468-01	9910468-02				
		ID FROM REPORT --> 047SBOTE04	047SBOTW04				
		SAMPLE DATE -----> 10/19/99	10/19/99				
		DATE EXTRACTED --> 10/20/99	10/20/99				
		DATE ANALYZED ----> 10/21/99	10/20/99				
		MATRIX -----> Soil	Soil				
		UNITS -----> MG/KG	MG/KG				
CAS #	Parameter	9910468	9910468				
9999000-96-4	TN-EPH (C12-C40)	10.3	13.				

**Appendix B**  
**Well Abandonment Forms**



May 19, 2000

Mr. Greg Parker  
Memphis/Shelby County Health Dept.  
Pollution Control Section  
814 Jefferson Avenue  
Memphis, Tennessee 38105

RE: **FILL AND ABANDONMENT OF WELL(S)**  
**NSA MID-SOUTH**  
**PERMIT NO. 00-072**

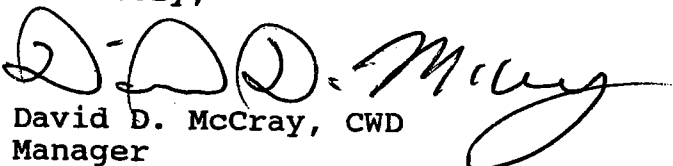
Dear Mr. Parker:

On March 16, 2000, Tri-State Testing Services, Inc. completed the fill and abandonment of the above referenced location. The procedure for closure was in accordance with the Shelby County Health Department regulations (Section 9.03) and the State of Tennessee Department of Environment & Conversation, Division of Underground Storage Tanks, Section 3.IIN, Environmental Assessment Guidelines, Groundwater Investigation Procedures, Monitoring Well Abandonment Procedures.

The well(s) were chlorinated using liquid bleach prior to backfilling with a grout consisting of 95% Portland cement and 8% bentonite. The wells were pressure grouted through a tremie pipe to just below the surface. The tremie pipe was slowly retracted during the grouting process. Once the tremie pipe had been removed, the abandonment process was complete.

If you have any further questions, please contact me.

Sincerely,

  
David D. McCray, CWD  
Manager

cc: File No. E-5-146



# MEMPHIS AND SHELBY COUNTY HEALTH DEPARTMENT

**YVONNE S. MADLOCK**  
*Director*

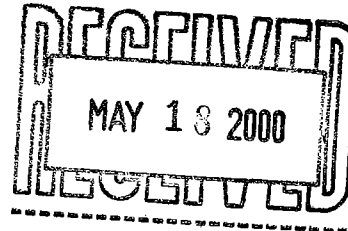
**JOHN B. KIRKLEY, M.D.**  
*Interim Health Officer*



**DR. W. W. HERENTON**  
*Mayor of Memphis*

**JIM ROUT**  
*Mayor of Shelby County*

May 9, 2000



Mr. David McCray  
Tri State Testing Services  
6756 Buckles Cove  
Memphis, TN 38133

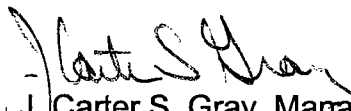
RE: EMERGENCY FILL/ABANDONMENT OF WELL(S) AT: NSA Midsouth  
Permit #00-072

Dear Mr. McCray:

This letter acknowledges the oral approval given by this Office for the emergency fill and abandonment of a well at the above referenced location. The "CONSTRUCTION PERMIT" has been enclosed authorizing you to begin work at the earliest possible date. You will be expected to comply with all conditions indicated on the permit as well as the specifications outlined on the application. The permit must be maintained at the job site for the duration of the fill and abandonment process.

Your prompt attention and cooperation in this matter will be appreciated. In the meantime if you have any questions, please contact Mr. Greg Parker at 544-7741.

Sincerely,

  
J. Carter S. Gray, Manager  
POLLUTION CONTROL SECTION

GP:JCSG:mpc

Enclosure

*E-5-146 Corp of Eng.*

## Mission

To promote, protect and improve the health and environment of all Shelby County residents.

**814 JEFFERSON AVENUE, MEMPHIS, TENNESSEE 38105**

**Phone (901) 544-7600**

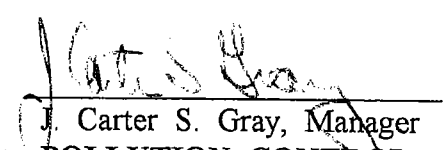
**MEMPHIS AND SHELBY COUNTY HEALTH DEPARTMENT**  
**WATER QUALITY BRANCH**  
**FILL AND ABANDONMENT PERMIT**

WELL DRILLING COMPANY TRI STATE TESTING SERVICES  
ADDRESS 6756 Buckles Cove Memphis, TN 38133  
DATE ISSUED 3/16/00 EXPIRATION DATE 6/16/00 PERMIT NUMBER 00-072  
DESCRIPTION OF WORK Fill and abandonment of a well : NSA Mid South  
**EMERGENCY PERMIT** 065G01UA, 065G02UA, 065G03UA, 065G04UA

This permit is issued based on the signed commitment of the driller and the owner to fully comply with the requirements outlined in the Shelby County Well Construction Code or as directed by the Water Quality Branch of the Memphis and Shelby County Health Department. Any deviation of the approved conditions outlined on this permit will void this permit immediately.

**CONDITIONS :**

1. The abandoned well shall be sealed only by a licensed well contractor and all procedures used to fill the well shall be witnessed by the Memphis and Shelby County Health Department.
2. If any water lines are connected to the well they must be disconnected before filling the well.
3. At least a twenty-four (24) hour notification is required to arrange the fill and abandonment of a well. This includes all dismantling procedures and the lowering of the pipe used to grout the well.
4. The well is to be dismantled so that all working parts are removed from inside the casing and any obstructions discovered in the well are dislodged.
5. One of two methods can be used to fill the empty well casing :
  - a) A mixture of Portland Class A or quick setting cement in a ratio not over seven (7) gallons of water for each ninety-four (94) pounds of cement.
  - b) A coarse grained high solids non-drilling mud grade bentonite slurry such as Baroid Benseal, American Colloid or equal. The bentonite grout shall be mixed in accordance with the manufacturers recommendations.
6. The grout shall be pumped from the bottom of the well upward through a tremmie pipe in one continuous operation in order to avoid separation or dilution of the seal material. A return shall be seen that is the same consistency at the top as the material that is pumped into the well.
7. Chlorine shall be added at the beginning and during the sealing process.

  
J. Carter S. Gray, Manager  
**POLLUTION CONTROL**

No authority is granted by this permit to construct, operate or maintain any well in violation of any law, statute, code, ordinance, rule or regulation of Memphis and Shelby County, Tennessee.

**NON TRANSFERABLE**

**POST OR FILE AT INSTALLATION ADDRESS**

GP 5/11/00



**Appendix C**  
**Soil-Disposal Manifests**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 14717

MC 060518

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR  
INSTRUCTIONS

4/8

SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 211 010627 NØ 003994

SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY M.D. SOUTH

GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5722 INTEGRITY DR. MILLINGTON 38054

PHONE NO.

SECTION III OPERATOR/CONTRACTOR

NAME US ARMY CORP OF ENGINEERS

ADDRESS 2915 RIVERBET RD. MEMPHIS TN 38109

PHONE NO. 544 0950

SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY M.D. SOUTH

PHONE NO. 874 5902

SECTION V WASTE DISPOSAL SITE

☐ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

SECTION VII DESCRIPTION OF WASTE

CONTAMINATED

CONTAINERS  
NO. TYPE

TOTAL QUANTITY  
UNIT

SOIL

1 T

12 Y

TYPE  
☐ V-METAL DRUM  
☐ A-PLASTIC DRUM  
☐ 3-6MIL PLASTIC  
BAGS/WRAP  
☐ TRUCK  
☐ OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENVIR. SPEC.

Print/Type Name & Title

Shipment Date

Signature

SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

SECTION XI TRANSPORTER 1

NAME OF CO. CORP OF ENGINEERS

ADDRESS 2915 RIVERBET RD

DRIVER

Print/Type Name/Title

TRUCK NO. 12 PHONE NO. 573 2521

Acknowledgement of receipt of materials.

Signature

Date

SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☐ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

1/1 INTERVIEW  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE

OFFICE OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 48933

N. 060519

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

GENERATOR			
GENERATOR INSTRUCTIONS 4147 SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)			
SECTION I BFI WASTE CODE TN 211 010627 NØ 003994		GENERATING LOCATION PHONE NO. 874 5902	
SECTION II GENERATOR NAME NAVAL SUPPORT ACTIVITY MID-SOUTH		PHONE NO.	
MAILING ADDRESS 5722 INTEGRITY DR MILLINGTON 38054		PHONE NO.	
SECTION III OPERATOR/CONTRACTOR NAME US ARMY CORP OF ENGINEERS		PHONE NO. 544 0947	
ADDRESS 2915 RIVERPORT RD MPHS TN 38109		PHONE NO. 874 5902	
SECTION IV OWNER NAME NAVAL SUPPORT ACTIVITY MID-SOUTH		PHONE NO.	
SECTION V WASTE DISPOSAL SITE <input checked="" type="checkbox"/> North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053 <input type="checkbox"/> South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116		PHYSICAL SITE LOCATION PHONE NO. (901) 872-7200	
SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA) Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105 Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984		PHONE NO. (901) 576-7588 (901) 423-6484	
SECTION VII DESCRIPTION OF WASTE CONTAMINATED SOIL	CONTAINERS NO. 1 TYPE T	TOTAL QUANTITY UNIT 12 Y	TYPE DM-METAL DRUM DM-PLASTIC DRUM BA-6MIL PLASTIC BAGS/WRAP TRUCK OTHER
ASBESTOS WASTE REGULATED <input type="checkbox"/> NON-REGULATED <input checked="" type="checkbox"/>		UNITS P-POUND Y-YARDS M-CUBIC METER C-CUBIC YARDS O-OTHER	

SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION  
NONE

SECTION IX GENERATOR CERTIFICATION	SECTION X OPERATOR CERTIFICATION (ASBESTOS)
I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.	I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title	Signature	Shipment Date
RANDY WILSON ENVR. SPEC		02 01

TRANSPORTER		
SECTION XI TRANSPORTER 1		
NAME OF CO. CORP OF ENGINEERS		
ADDRESS 2915 RIVERPORT RD. MEMPHIS		
DRIVER [Signature]		
Print/Type Name/Title	PHONE NO.	
TRUCK NO. 373-2521		
Acknowledgement of receipt of materials. Kenneth L. Burde [Signature] Date		
SECTION XII TRANSPORTER 2		
NAME OF CO.		
ADDRESS		
DRIVER		
Print/Type Name/Title	PHONE NO.	
TRUCK NO.		
Acknowledgement of receipt of materials. [Signature] Date		

DISPOSAL SITE	
DISCREPANCY INDICATION SPACE	DISPOSAL COORDINATES (Landfill use only)
Print/Type Name	Signature/Date

SITE AND ADDRESS	DISPOSAL INSTRUCTIONS
<input checked="" type="checkbox"/> SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135 <input checked="" type="checkbox"/> NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224 I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate. AUTHORIZED AGENT (PLEASE PRINT) [Signature] 03 01 SIGNATURE OF AUTHORIZED AGENT Receipt Date	MIX WITH REFUSE AT TOE OF SLOPE

ESSEE, INC.  
1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 48873

NC 060520

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR  
INSTRUCTIONS 48

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE-COMplete SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN/211/010627/NP 003994

SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

MAILING ADDRESS 5722 INTEGRITY DR MILLINGTON 38054

GENERATING LOCATION

PHONE NO. 874.5902

PHONE NO.

SECTION III OPERATOR/CONTRACTOR

NAME US ARMY CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD MPHS TN 38109

PHONE NO. 544 0950

SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

PHONE NO. 874 5902

SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

SECTION VII DESCRIPTION OF WASTE

CONTAMINATED

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
3M-METAL DRUM  
3M-PLASTIC DRUM  
3A-6MIL PLASTIC  
BAGS/WRAP  
☒ TRUCK  
☐ OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

☐ REGULATED

☒ NON-REGULATED

SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENVIR. SPEC

Print/Type Name & Title

Shipment Date

Signature

SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

SECTION XI TRANSPORTER 1

NAME OF CO. CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD

DRIVER

Print/Type Name/Title

TRUCK NO. 573-2521

PHONE NO.

Acknowledgement of receipt of materials.

Kenneth E. Burden

Signature

Date

SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Kenneth E. Burden  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**

OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 48865

NC 080521

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

GENERATOR		
GENERATOR INSTRUCTIONS <u>48</u>	SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)	
SECTION I BFI WASTE CODE <u>TN 211 010627 NQ 003994</u>		
SECTION II GENERATOR		
NAME <u>NAVAL SUPPORT ACTIVITY MID-SOUTH</u>		GENERATING LOCATION
MAILING ADDRESS <u>5722 INTEGRITY DR. MILLINGTON 38054</u>		PHONE NO. <u>874-5962</u>
SECTION III OPERATOR/CONTRACTOR		
NAME <u>CORP OF ENGINEERS</u>		PHONE NO. <u>544-0950</u>
ADDRESS <u>2915 RIVERPORT RD MPHS 38109</u>		PHONE NO. <u>544-0950</u>
SECTION IV OWNER		
NAME <u>NAVAL SUPPORT ACTIVITY MID-SOUTH</u>		PHONE NO. <u>874-5962</u>
SECTION V WASTE DISPOSAL SITE		
<input checked="" type="checkbox"/> North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38055		
<input type="checkbox"/> South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116		
SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)		
Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105		
Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984		
SECTION VII DESCRIPTION OF WASTE	CONTAINERS NO. TYPE	TOTAL QUANTITY UNIT
<u>CONTAMINATED</u>  <u>SOIL</u>	<u>1</u> <u>T</u>	<u>12</u> <u>Y</u>
ASBESTOS WASTE		TYPE
<u>REGULATED</u> <u>NON-REGULATED</u>		<input checked="" type="checkbox"/> M-METAL DRUM <input type="checkbox"/> M-PLASTIC DRUM <input type="checkbox"/> B-6MIL PLASTIC <input type="checkbox"/> BAGS/WRAP <input type="checkbox"/> T-TRUCK <input type="checkbox"/> OTHER
RQ, Asbestos, 9, NA2212, PG III		UNITS
		<input type="checkbox"/> P-POUND <input type="checkbox"/> Y-YARDS <input type="checkbox"/> M-CUBIC <input type="checkbox"/> METER <input type="checkbox"/> Y-CUBIC <input type="checkbox"/> YARDS <input type="checkbox"/> O-OTHER

## SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

## SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENVIR. SPEC

Print/Type Name & Title

Shipment Date

Signature

## SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. CORP OF ENGINEERS  
ADDRESS 2915 RIVERPORT RD MPHS  
DRIVER 1  
Print/Type Name / Title  
TRUCK NO. 1 PHONE NO. 573-2521  
Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO. \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
DRIVER \_\_\_\_\_  
Print/Type Name / Title  
TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_  
Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

### DISPOSAL COORDINATES (Landfill use only)

Print/Type Name

Signature / Date

### SITE AND ADDRESS

- ☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

W. PORTERFIELD  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 17071

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

NE 080522

GENERATOR INSTRUCTIONS 48

GENERATOR

SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 211 010627 NP 003990

SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MIA-SOUTH

MAILING ADDRESS 5722 INTEGRITY DR MILLINGTON 38054

GENERATING LOCATION

PHONE NO. 874-5902

PHONE NO.

SECTION III OPERATOR/CONTRACTOR

NAME CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD. MPHS, TN 38109

PHONE NO. 544-0950

SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MIA-SOUTH

PHONE NO. 874-5902

SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

SECTION VII DESCRIPTION OF WASTE

CONTAMINATED

CONTAINERS NO. TYPE

TOTAL QUANTITY UNIT

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
BA-SHIELD PLASTIC  
B-GS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

SOIL

1 T

12 Y

ASBESTOS WASTE  
☐ REGULATED

RQ, Asbestos, 9, NA2212, PG III  
☒ NON-REGULATED

SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

SECTION IX GENERATOR CERTIFICATION

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PANDA WILSON ENV. RESPECI

Print/Type Name & Title

Shipment Date

Signature

SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

TRANSPORTER

SECTION XI TRANSPORTER

NAME OF CO. CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT MPHS.

DRIVER

Print/Type Name/Title

TRUCK NO. 373-2521

PHONE NO.

Acknowledgement of receipt of materials.

Ernest L. Burde

Signature

Date

SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. 373-2521

PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

DISPOSAL SITE

CREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Type Name

Signature/Date

SITE AND ADDRESS

☒ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☐ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

by certify that the above material has been accepted and to the best of knowledge the foregoing is true and accurate.

W. B. BEEFIELD  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

DISPOSAL INSTRUCTIONS

MIX WITH REFUSE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 11

060523

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR  
INSTRUCTIONS

48

SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I: BFI WASTE CODE TN 211 010627 N0 003994

SECTION II: GENERATOR

GENERATING LOCATION

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 872 5902

MAILING ADDRESS 5722 INTEGRITY MILLINGTON 38054

PHONE NO.

SECTION III: OPERATOR/CONTRACTOR

NAME CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD MPHS, TN. 38109

PHONE NO. 544 0950

SECTION IV: OWNER

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

PHONE NO. 874 5902

SECTION V: WASTE DISPOSAL SITE

PHYSICAL SITE LOCATION

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

SECTION VI: RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

SECTION VII: DESCRIPTION OF WASTE

CONTAMINATED

SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
D1- METAL DRUM  
D2- PLASTIC DRUM  
B1- MIL PLASTIC  
B2- BAGS/WRAP  
T- TRUCK  
O- OTHER

UNITS  
P- POUND  
Y- YARDS  
M<sup>3</sup>- CUBIC  
METER  
Y<sup>3</sup>- CUBIC  
YARDS  
O- OTHER

ASBESTOS WASTE  
REGULATED

NON-REGULATED  
RQ, Asbestos, 9, NA2212, PG III

SECTION VIII: SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

SECTION IX: GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. R. SPEC.

Print/Type Name & Title

Shipment Date

6-1  
2-26-01

SECTION X: OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operator's Signature

## TRANSPORTER

SECTION XI: TRANSPORTER

NAME OF CO. CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT MPHS.

DRIVER WIM ASHFIELD

Print/Type Name / Title

TRUCK NO. 573-2521

PHONE NO.

Acknowledgement of receipt of materials.

Jim Pope

Signature

Date

SECTION XII: TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature / Date

SITE AND ADDRESS

South Shelby 5494 MALONE RD. PERMIT# SNL 79-106-0135  
North Shelby 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 49187

060526

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR INSTRUCTIONS <input checked="" type="checkbox"/> SPECIAL WASTE - COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI <input checked="" type="checkbox"/> ASBESTOS WASTE - COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)	
SECTION I BFI WASTE CODE <u>TN 211 016127 N 0 003994</u>	
SECTION II GENERATOR NAME <u>NAVAL SUPPORT ACTIVITY, m.A. SOUTH</u> GENERATING LOCATION PHONE NO. <u>874-5902</u>	
MAILING ADDRESS <u>5722 INTEGRITY DR. MILLINGTON 38054</u> PHONE NO.	
SECTION III OPERATOR/CONTRACTOR NAME <u>CORP OF ENGINEERS</u>	
ADDRESS <u>2915 RIVERPORT RD MPHS, TN 38109</u> PHONE NO. <u>544-0950</u>	
SECTION IV OWNER NAME <u>NAVAL SUPPORT ACTIVITY, m.A. SOUTH</u> PHONE NO. <u>874-5902</u>	
SECTION V WASTE DISPOSAL SITE <input checked="" type="checkbox"/> North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053 PHYSICAL SITE LOCATION <input type="checkbox"/> South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116 PHONE NO. <u>(901) 872-7200</u>	
SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA) Mphs. & Shelby Cty. Health Dept. 814 Jefferson Memphis, TN 38105 Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984 PHONE NO. <u>(901) 576-7588</u> PHONE NO. <u>(901) 423-6484</u>	
SECTION VII DESCRIPTION OF WASTE <u>CONTAMINATED SOIL</u>	CONTAINERS NO. <u>1</u> TYPE <u>T</u> TOTAL QUANTITY UNIT <u>12 Y</u>
TYPE <input checked="" type="checkbox"/> METAL DRUM <input type="checkbox"/> PLASTIC DRUM <input type="checkbox"/> 6MIL PLASTIC BAGS/WRAP <input type="checkbox"/> TRUCK <input type="checkbox"/> OTHER	
UNITS P-POUND Y-YARDS M <sup>3</sup> -CUBIC METER Y <sup>3</sup> -CUBIC YARDS O-OTHER	

ASBESTOS WASTE RQ, Asbestos, 9, NA2212, PG III  
☒ REGULATED ☒ NON-REGULATED

## SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

## SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

ANDY WILSON ENVIR. SPEC.

Print/Type Name & Title \_\_\_\_\_ Shipment Date \_\_\_\_\_  
Signature \_\_\_\_\_

## SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title \_\_\_\_\_ Shipment Date \_\_\_\_\_  
Operators Signature \_\_\_\_\_

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. CORP OF ENG.  
ADDRESS 2915 RIVERPORT MPHS.  
DRIVER ANDY WILSON  
Print/Type Name / Title \_\_\_\_\_  
TRUCK NO. 593 2521 PHONE NO. 543 2521  
Acknowledgement of receipt of materials.  
Signature \_\_\_\_\_ Date \_\_\_\_\_

### SECTION XII TRANSPORTER 2

NAME OF CO. \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
DRIVER \_\_\_\_\_  
Print/Type Name / Title \_\_\_\_\_  
TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_  
Acknowledgement of receipt of materials.  
Signature \_\_\_\_\_ Date \_\_\_\_\_

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name \_\_\_\_\_  
Signature / Date \_\_\_\_\_

### DISPOSAL COORDINATES (Landfill use only)

Signature / Date \_\_\_\_\_

### SITE AND ADDRESS

☒ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224  
I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

W. PORTER FELD  
AUTHORIZED AGENT (PLEASE PRINT)  
Signature of Authorized Agent \_\_\_\_\_  
Receipt Date 12/1/01

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**





BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 41917

NO. 025934

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

GENERATOR			
GENERATOR INSTRUCTIONS 43		SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI. ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)	
SECTION I BFI WASTE CODE TN 211 010430 4427 1207 75		GENERATING LOCATION	
SECTION II GENERATOR		PHONE NO.	
NAME Naval Support Activity, Memphis		PHONE NO. (901) 874-5902	
MAILING ADDRESS 5720 Integrity Dr., Millington, TN 38054		PHONE NO. (901) 874-5902	
SECTION III OPERATOR/CONTRACTOR		PHONE NO. (901) 874-5902	
NAME Corp. Of Engineers		PHONE NO. (901) 874-5902	
ADDRESS 2915 Riverport Rd., Memphis, TN 38109		PHONE NO. (901) 874-5902	
SECTION IV OWNER		PHONE NO. (901) 874-5902	
NAME NAVAL SUPPORT ACTIVITY		PHONE NO. (901) 874-5902	
SECTION V WASTE DISPOSAL SITE		PHYSICAL SITE LOCATION	
<input checked="" type="checkbox"/> North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38054		PHONE NO. (901) 872-7200	
<input type="checkbox"/> South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116		PHONE NO. (901) 872-7200	
SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)		PHONE NO. (901) 872-7200	
Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105		PHONE NO. (901) 872-7200	
Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984		PHONE NO. (901) 872-7200	
SECTION VII DESCRIPTION OF WASTE	CONTAINERS NO. TYPE	TOTAL QUANTITY UNIT	TYPE UNITS
Contaminated Soil	1 T	12 Yds	TYPE UNITS
ASBESTOS WASTE RQ, Asbestos, 9, NA2212, PG III			
<input type="checkbox"/> FRIABLE <input type="checkbox"/> NON FRIABLE <input type="checkbox"/> BOTH <input type="checkbox"/> % FRIABLE <input type="checkbox"/> % NON FRIABLE			
SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION			
NONE			
SECTION IX GENERATOR CERTIFICATION		SECTION X OPERATOR CERTIFICATION (ASBESTOS)	
I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.		I hereby declare that the container and its contents are properly described, classified and packaged, and are in proper condition for transportation according to applicable international and government regulations.	
Randy Wilson (Environmental Protection Specialist)		Print/Type Name & Title	
Print/Type Name & Title		Signature	
Signature		Signature	
TRANSPORTER			
SECTION XI TRANSPORTER I		SECTION XII TRANSPORTER II	
NAME OF CO. CORP OF ENGINEERS		NAME OF CO.	
ADDRESS 2915 RIVERPORT RD		ADDRESS	
DRIVER JIM ASHFIELD		DRIVER	
Print/Type Name/Title		Print/Type Name/Title	
TRUCK NO. 12 PHONE NO. 573-0501		TRUCK NO. PHONE NO.	
Acknowledgement of receipt of materials.		Acknowledgement of receipt of materials	
Signature		Signature	
Date		Date	
DISPOSAL SITE			
DISCREPANCY INDICATION SPACE		DISPOSAL COORDINATE (Landfill use only)	
Print/Type Name		Signature/Date	
SITE AND ADDRESS		DISPOSAL INSTRUCTIONS	
<input type="checkbox"/> SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135		MIX WITH REFUEL AT TOE OF SITE	
<input checked="" type="checkbox"/> NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224			
I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
AUTHORIZED AGENT (PLEASE PRINT)			
SIGNATURE OF AUTHORIZED AGENT			
Receipt Date			



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 41501

N 025933

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR INSTRUCTIONS 43

SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 211 L42Y12 475

### SECTION II GENERATOR

NAME Naval Support Activity, Memphis

MAILING ADDRESS 5720 Integrity Dr., Millington, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME Corp. Of Engineers

ADDRESS 2915 Riverport Rd., Memphis, TN 38109

### SECTION IV OWNER

NAME

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38054

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

Contaminated Soil

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

Yds

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
B-CONTAINER  
BAGS/WRAP  
TRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
M-METER  
C-CUBIC  
Y-YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

☐ FRIABLE

☐ NON FRIABLE

☐ BOTH

☐ % FRIABLE

☐ % NON FRIABLE

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Randy Wilson (Environmental Protection Specialist)

Print/Type Name & Title

Signature

Signature

### SECTION X OPERATOR CERTIFICATION

I hereby declare that the material described above by proper shipping name and are in all respects in proper condition for transportation according to applicable international and government regulations.

Print/Type Name & Title

Signature

### SECTION XI TRANSPORTER CERTIFICATION

I hereby declare that the material described above by proper shipping name and are in all respects in proper condition for transportation according to applicable international and government regulations.

Print/Type Name & Title

Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. TRAILER ENGINEERS

ADDRESS 2915 RIVERPORT RD. 38109

DRIVER JOHN A. HFIELD

Print/Type Name/Title

TRUCK NO. 12 PHONE NO. 573-2521

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHENIX

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATE  
(Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

The Bell

AUTHORIZED AGENT (PLEASE PRINT)

The Bell

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 47563

NO 025932

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR INSTRUCTIONS 43

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 211 010430 442Y12475

### SECTION II GENERATOR

NAME Naval Support Activity, Memphis

MAILING ADDRESS 5720 Integrity Dr., Millington, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME Corp. Of Engineers

ADDRESS 2915 Riverport Rd., Memphis, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

Contaminated Soil

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

Yds  
12

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
BAGS/WRAP  
T-TRUCK  
C-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
C-CUBIC  
YARDS  
C-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

\_\_\_ FRIABLE

\_\_\_ NON FRIABLE

\_\_\_ BOTH

\_\_\_ % FRIABLE

\_\_\_ % NON FRIABLE

\_\_\_ BFE

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Randy Wilson (Environmental Protection Specialist)

Print/Type Name & Title

Signature

2/22/01

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the material described above is not asbestos or asbestos containing material as defined by 40 CFR Part 763.1 and is not a hazardous waste as defined by 40 CFR Part 261. I am not aware of any asbestos or asbestos containing material in the waste described above.

Print/Type Name & Title

Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. Corp. of Eng.

ADDRESS 2915 Riverport

DRIVER Tim R. Wilson

Print/Type Name/Title

TRUCK NO. 12 PHONE NO. 572-2521

Acknowledgement of receipt of materials.

Signature

Date

2/22/01

### SECTION XII TRANSPORTER II

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATE  
(Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH-SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH-SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

W. BATERFIELD

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15892

NO 060485

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE-COMplete SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 021101 0504 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38055

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED

SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
1-METAL DRUM  
2-PLASTIC DRUM  
3-6MIL PLASTIC  
BAGS/WRAP  
4-TRUCK  
5-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

☐ REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROF. SPEC. 01/14/2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 444 51 BRIGHTON, TN 38011

DRIVER Ken Carnall

TRUCK NO. 5 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO. \_\_\_\_\_

ADDRESS \_\_\_\_\_

DRIVER \_\_\_\_\_

Print/Type Name/Title

TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

### DISPOSAL COORDINATES (Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

Fay Smith  
SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15933

NR 060488

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211010504 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 3922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO. \_\_\_\_\_

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 1915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
☐ 55-GAL METAL DRUM  
☐ 55-GAL PLASTIC DRUM  
☐ 5-GAL PLASTIC  
BAGS/WRAP  
☐ TRUCK  
☐ OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

☐ REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. 01 AUG 2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 14451 BRIGANTON, TN 38011

DRIVER Mitchell Compton

Print/Type Name/Title

TRUCK NO. RL #6 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature Mitchell Compton

Date 4-1-00

### SECTION XII TRANSPORTER II

NAME OF CO. \_\_\_\_\_

ADDRESS \_\_\_\_\_

DRIVER \_\_\_\_\_

Print/Type Name/Title

TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

Acknowledgement of receipt of materials.

Signature \_\_\_\_\_

Date \_\_\_\_\_

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith

AUTHORIZED AGENT (PLEASE PRINT)

Fay Smith

SIGNATURE OF AUTHORIZED AGENT

Receipt Date 8-1-00

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15941

NO 060489

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN04101 0504 NO. 003198

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

### CONTAINERS

NO. 1 TYPE T

### TOTAL QUANTITY

UNIT

TYPE  
☐ METAL DRUM  
☐ PLASTIC DRUM  
☐ 6MIL PLASTIC  
BAGS/WRAP  
☐ TRUCK  
☐ OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. DIA46-2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS High 51 BRIGHTON, TN 38011

DRIVER Ken Canall

Print/Type Name/Title

TRUCK NO. 5 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER II

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

### DISPOSAL COORDINATES (Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☒ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☐ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**





BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16028

Nº 060495

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I, II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 021101 0504 NO. 903188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
D-1-METAL DRUM  
D-2-PLASTIC DRUM  
D-3-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RADDA WILSON ENV. PROT. SPEC. 01 AUG 2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping names and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operator's Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 1104 ST BRIGHTON, TN 38011

DRIVER Ken Carroll

Print/Type Name/Title

TRUCK NO. 5 PHONE NO. 831-3808

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

### DISPOSAL COORDINATES (Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16038

NO 060496

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211010504 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO. \_\_\_\_\_

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-0747

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

### CONTAINERS

NO. TYPE

1 T

### TOTAL QUANTITY

UNIT

### TYPE

☐ METAL DRUM  
☐ PLASTIC DRUM  
☐ 6MIL PLASTIC  
BAGS/WRAP  
☐ TRUCK  
☐ OTHER

### UNITS

☐ P-POUND  
☐ Y-YARDS  
☐ M<sup>3</sup>-CUBIC  
METER  
☐ Y<sup>3</sup>-CUBIC  
YARDS  
☐ O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC 01AUG2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 1404 51 BRIGHTON, TN 38011

DRIVER

Print/Type Name / Title

TRUCK NO. \_\_\_\_\_ PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO. \_\_\_\_\_

ADDRESS \_\_\_\_\_

DRIVER

Print/Type Name / Title

TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

### DISPOSAL COORDINATES (Landfill use only)

Print/Type Name

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
AT TOE





BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15961

NE 060490

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN0211010504 NO. 003/88

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO. \_\_\_\_\_

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOL + DEBRIS

### CONTAINERS

NO. 1 TYPE T

### TOTAL QUANTITY

UNIT \_\_\_\_\_

TYPE  
☐ M-METAL DRUM  
☐ P-PLASTIC DRUM  
☐ A-6MIL PLASTIC  
BAGS/WRAP  
☐ TRUCK  
☐ OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. 01 AUG 2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Mitchell Comp 40 n

TRUCK NO. RL#6 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Mitchell Comp 40 n 8-1-00

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO. \_\_\_\_\_

ADDRESS \_\_\_\_\_

DRIVER \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

Acknowledgement of receipt of materials.

Signature \_\_\_\_\_ Date \_\_\_\_\_

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

Fay Smith  
SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15972

NO 060491

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR  
INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN021010504 NO.003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 3922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN, 38109

PHONE NO. 544-0547

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

SECTION VII DESCRIPTION OF WASTE  
FUEL OIL CONTAMINATED  
SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE	UNITS
M-METAL DRUM	P-POUND
PL-PLASTIC DRUM	Y-YARDS
PA-6MIL PLASTIC	M <sup>3</sup> -CUBIC
BAGS/WRAP	METER
TRUCK	Y <sup>3</sup> -CUBIC
OTHER	YARDS
	O-OTHER

ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON, ENV. PROT. SPEC. 01946200D

Print/Type Name & Title

Shipment Date

Print/Type Name & Title

Shipment Date

Signature

Operators Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER REN CARROLL

Print/Type Name / Title

TRUCK NO. 5 PHONE NO. 931-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REF.  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15987

NO 060492

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE-COMplete SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211 01 0504 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5922 INTEGRITY DR., MILLINGTON, TN 38054

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-8547

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

### CONTAINERS

NO. 1 TYPE T

### TOTAL QUANTITY

UNIT

TYPE  
☒ METAL DRUM  
☐ PLASTIC DRUM  
☐ 6MIL PLASTIC  
BAGS/WRAP  
☐ TUB  
☐ OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. OIL ALK 2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Mitchell Compton

Print/Type Name/Title

TRUCK NO. R126 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Mitchell Compton

Signature

8-1-00

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

### DISPOSAL COORDINATES (Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15993

NC 060493

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211010504 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5922 INTEGRITY PR, MILLINGTON, TN 38054

### GENERATING LOCATION

PHONE NO. 874-5902

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD., MEMPHIS, TN, 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL & DEBRIS

### CONTAINERS

NO. 1 TYPE T

### TOTAL QUANTITY

UNIT

### TYPE

☐ 1-METAL DRUM  
☐ 2M-PLASTIC DRUM  
☐ 3A-6MIL PLASTIC BAGS/WRAP  
☐ TRUCK  
☐ OTHER

### UNITS

P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

☒ RQ, Asbestos, 9, NA2212, PG III

☐ REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV PROT. SPEC. 01AUG2000

Print/Type Name & Title

Shipment Date

Print/Type Name & Title

Shipment Date

Signature

Operators Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Ken Carrick

Print/Type Name/Title

TRUCK NO. 5 PHONE NO. 877-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

### DISPOSAL COORDINATES (Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUS  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15908

NO 060486

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 021101 0504 NO. 003198

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID 504TH

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVER PORT RD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID 504TH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED

SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
BA-6MIL PLASTIC  
BAGS/WRAP  
TRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROF. SPEC. 01AUG-2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operator's Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Mitchell Compton

Print/Type Name / Title

TRUCK NO. PL 46 PHONE NO. 937-3888

Acknowledgement of receipt of materials.

Mitchell Compton

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH SOIL  
AT TOP OF CLIFF



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15913

NE 060487

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211 01 0504 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 814-5902

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 814-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
☐ 1-METAL DRUM  
☐ 2-M-PLASTIC DRUM  
☐ 1/4-6MIL PLASTIC  
BAGS/WRAP  
☐ TRUCK  
☐ OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

☐ REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROF. SPEC. 01 AUG 2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS Hwy 51 BRIGHTON, TN 38011

DRIVER Ken Carroll

Print/Type Name/Title

TRUCK NO. 4 PHONE NO. 837-3888

Acknowledgement of receipt of materials

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☐ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

Fay Smith  
SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 00016071

№ 060501

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211010504 NO. 003/88

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN, 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL AND DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
D-M-METAL DRUM  
L-M-PLASTIC DRUM  
P-A-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. 01AUG2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN

ADDRESS HWY 56 BRIDGTON, TN

DRIVER Ken Carroll

Print/Type Name/Title

TRUCK NO. 5 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER II

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

### DISPOSAL COORDINATES (Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH RE  
AT TOE OF P



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16043

NO 060497

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE-COMplete SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN0211010504 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5922 INTERSTATE DR, MILLINGTON, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis. Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
1-METAL DRUM  
2-PLASTIC DRUM  
3-6MIL PLASTIC  
BAGS/WRAP  
TRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. AGENT 01 AUG 2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Ken Carroll

Print/Type Name / Title

TRUCK NO. 5 PHONE NO. 831-3888

Acknowledgement of receipt of materials

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print / Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print / Type Name

### DISPOSAL COORDINATES (Landfill use only)

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
ATTOL





BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16048

NE 060498

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR  
INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211 01 0504 NO. 003188

SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO.

SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT ROAD, MEMPHIS, TN 38109

PHONE NO. 544-0947

SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
DM-METAL DRUM  
DP-PLASTIC DRUM  
EA-6MIL PLASTIC  
BAGS/WRAP  
TRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON, ENV. PROT. SPEC. 01/14/2000

Print/Type Name & Title

Shipment Date

Signature

SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

SECTION XI TRANSPORTER I

NAME OF CO. BLINMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN

DRIVER M. Mitchell

Print/Type Name/Title

TRUCK NO. KL# PHONE NO. 837-3888

Acknowledgement of receipt of materials

Signature Mitchell Copton Date 8-1-00

SECTION XII TRANSPORTER II

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

Fay Smith  
SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

DISPOSAL INSTRUCTIONS

MIX WITH USE  
ATTORNEY



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16055

NE 060199

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN021101 05 04 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CRPS OF ENLINES

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38054

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
D-M-METAL DRUM  
D-M-PLASTIC DRUM  
B-M-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

NO Asbestos, 9, NA2212, PG III  
NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. 01/14/00

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R. L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Ken Corral

Print/Type Name / Title

TRUCK NO. 5 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER II

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATES  
(Landfill use only)

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
AT TOE OF



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16064

NO 060500

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN02 110 10504 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5722 INTEGRITY DR, MILLINGTON, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RICKERD RD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38059

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

### TYPE

☐ 4-METAL DRUM  
☐ 4-M-PLASTIC DRUM  
☐ 6-MIL PLASTIC  
BAGS/WRAP  
☐ TRUCK  
☐ OTHER

### UNITS

P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

☐ REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RAWAY WILSON ENV. PROT. SPEC. OIA/ALCOA

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 61 BRIGHTON, TN 38011

DRIVER Michael Compton

Print/Type Name/Title

TRUCK NO. RL-6 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
AT TOE OF DUMP



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16021

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

NO 060494

## GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211 010504 NO. 003188

## SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 922 INTEGRITY DR, MILLINGTON, TN 38054

## SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

## SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

## SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

## SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

## SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
D1-METAL DRUM  
D1-PLASTIC DRUM  
D1-6MIL PLASTIC  
BAGS/WRAP  
TRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RQ. Asbestos, 9, NA2212, PG III  
1 NON-REGULATED

## SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

## SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROF. SPEC. 01/14/00

Print/Type Name & Title

Shipment Date

Signature

## SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Mitchell Comp

TRUCK NO. R26 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature Mitchell Comp Date 8-1-00

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATES  
(Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
AT TOE OF DUMP



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16079

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

NE 060503

## GENERATOR

GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 021101 05 04 NO. 003188

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

GENERATING LOCATION

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO. 874-5902

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

PHONE NO.

ADDRESS 2915 RIVERPORT ROAD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 544-0947

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

PHONE NO. 874-5904

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHYSICAL SITE LOCATION

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

PHONE NO. (901) 872-7200

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 576-7588

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
☐ METAL DRUM  
☐ PLASTIC DRUM  
☐ 6MIL PLASTIC  
BAGS/WRAP  
☐ TRUCK  
☐ OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON PROV. PROT. SPEC. 01A962000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R. L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Ken Carroll

Print/Type Name / Title

TRUCK NO. 5 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

Fay Smith  
SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUEL  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16076

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

NO 060502

## GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

## GENERATOR

SECTION I BFI WASTE CODE TN0211010504 NO. 003186

## SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 6422 INTEGRITY DR., MILLINGTON, TN 38052

## SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD., MEMPHIS, TN 38109

## SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

## SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

## SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

## SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

ASBESTOS WASTE  
REGULATED

RQ, Asbestos, 9, NA2212, PG III  
NON-REGULATED

## SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

## SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY KILBO ENV. PROT. SPEC. 01 AUG 2000  
Print/Type Name & Title Shipment Date

Signature

Shipment Date

Print/Type Name & Title

Operators Signature

Shipment Date

## TRANSPORTER

## SECTION XI TRANSPORTER

NAME OF CO. R. L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Mitchell Compton

TRUCK NO. R126 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature Mitchell Compton Date 8-1-00

## SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Operators Signature

Shipment Date

## SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

## DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

## SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

Signature Fay Smith Date 8-1-00  
SIGNATURE OF AUTHORIZED AGENT Receipt Date

## DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**

KENTUCKY, INC.  
1207  
MILLINGTON, TN 38083  
872-7200

LMS TICKET NO. 17765

025924

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

SECTION I SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION II BFI WASTE CODE TN 211

## SECTION II GENERATOR

NAME Naval Support Activity, Memphis  
MAILING ADDRESS 5720 Integrity Dr., Millington, TN 38054

## SECTION III OPERATOR/CONTRACTOR

NAME Corp. Of Engineers  
ADDRESS 2915 Riverport Rd., Memphis, TN 38109

## SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY

## SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053  
☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

## SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105  
Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

## SECTION VII DESCRIPTION OF WASTE

CONTAINERS NO.	TYPE	TOTAL QUANTITY UNIT
1	T	12 Yds.

## ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III  
FRIABLE NON FRIABLE BOTH % FRIABLE % NON FRIABLE

## SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

## SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Randy Wilson (Environmental Protection Specialist)

Print/Type Name & Title

Signature

## SECTION X OPERATOR CERTIFICATION

I hereby declare that the content described above by proper shipping documents and are in all respects in proper condition for transportation according to applicable international and government regulations.

Print/Type Name & Title

Signature

## TRANSPORTER

## SECTION XI TRANSPORTER I

NAME OF CO. JIM HARRIS  
ADDRESS 1011  
DRIVER Jim Harris  
Print/Type Name/Title  
TRUCK NO. 1 PHONE NO. 501  
Acknowledgement of receipt of materials.  
Signature Date

## SECTION XII TRANSPORTER II

NAME OF CO.  
ADDRESS  
DRIVER  
Print/Type Name/Title  
TRUCK NO. PHONE NO.  
Acknowledgement of receipt of materials.  
Signature Date

## DISPOSAL SITE

## DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

## SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224  
I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

## DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOP OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16119

NO 060509

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211010504 NO. 003186

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
DI METAL DRUM  
DI PLASTIC DRUM  
B- SMIL PLASTIC  
BAGS/WRAP  
T- TRUCK  
O- OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. 02AUG-2000

Print/Type Name & Title

Shipment Date

Print/Type Name & Title

Shipment Date

Signature

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Ken Carroll

Print/Type Name / Title

TRUCK NO. 5 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER II

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

### DISPOSAL COORDINATES (Landfill use only)

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-2-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**





BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16089

NC 060504

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211 01 0504 NO. 003186

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
C V-METAL DRUM  
D V-PLASTIC DRUM  
B A-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
C-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RQ, Asbestos, 9, NA2212, PG III  
☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. 01/14/2000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 1404 51 BRIGHTON, TN 38011

DRIVER Ritchell Compton

Print/Type Name / Title

TRUCK NO. R1146 PHONE NO. 937-3888

Acknowledgement of receipt of materials.

Signature Ritchell Compton

Date 8-2-00

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATES  
(Landfill use only)

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16117

NE 060508

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211 010504 NO. 003186

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

### GENERATING LOCATION

PHONE NO. 874-5902

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
DX-METAL DRUM  
DM-PLASTIC DRUM  
EA-6MIL PLASTIC  
BAGS/WRAP  
TRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RAMONA WILSON, ENV. PROT. SPEC. 024462000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 4409 51 BRIGHTON, TN 38011

DRIVER Mitchell Compton

Print/Type Name/Title

TRUCK NO. RL 6 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Mitchell Compton

Signature

Date 8-2-00

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date 8-2-00

### DISPOSAL INSTRUCTIONS

MIX WITH REFUEL  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16106

NO 060507

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE-COMplete SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE IN 0211010504 No. 003186

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID 504TH

### GENERATING LOCATION

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO. 874-5902

### SECTION III OPERATOR/CONTRACTOR

NAME 10 CORPS OF ENGINEERS

PHONE NO.

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID 504TH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
M-METAL DRUM  
DM-PLASTIC DRUM  
B-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
C-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

BANDY BOILSON PROV. PROT. SPEC. 8-2-00

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51, BRIGANTON, TN

DRIVER Ken Carroll

Print/Type Name / Title

TRUCK NO. 5 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature / Date

DISPOSAL COORDINATES  
(Landfill use only)

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
AT TOE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16091

NO 060505

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211010504 NO. 005186

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38058

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVER PORT ROAD, MEMPHIS, TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38058

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
EA-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
CH-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

REGULATED

RQ, Asbestos, 9, NA2212, PG III

A NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC. 8-2-00

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. B. L. INMAN TRUCKING

ADDRESS 1405 51 BRIGANTON, TN 38011

DRIVER Gen Corral

Print/Type Name/Title

TRUCK NO. 5 PHONE NO. 937-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO. \_\_\_\_\_

ADDRESS \_\_\_\_\_

DRIVER \_\_\_\_\_

Print/Type Name/Title

TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATES  
(Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-2-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 16101

NE 060506

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE IN 0211010504 NO. 003186

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID 504TH

MAILING ADDRESS 5922 INTEGRITY DR., MILLINGTON, TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN, 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID 504TH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
1-METAL DRUM  
DM-PLASTIC DRUM  
DA-6MIL PLASTIC  
BAGS/WRAP  
TRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RQ, Asbestos, 9, NA2212, PG III  
☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROT. SPEC.

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS HWY 51 BRIGHTON, TN 38011

DRIVER Mitchell Compton

Print/Type Name/Title

TRUCK NO. PL #6 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Mitchell Compton

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-2-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**

GENERATOR/OPERATOR ORIGINAL - WHITE

DISTRICT OFFICE - GREEN

LANDFILL - YELLOW

TRANSPORTER - BLUE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 12193

060044

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN211010315 NO 201035

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

MAILING ADDRESS 5722 INTEGRITY DR. MILLINGTON TN 38053

### SECTION III OPERATOR/CONTRACTOR

NAME CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD. MEMPHIS TN 38107

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

DIESEL  
CONTAMINATED  
SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
3A-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RQ, Asbestos, 9, NA2212, PG III  
NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Paul Wilson ENV. PROT. OFF. 7-11-00

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD. MEMPHIS TN

DRIVER CHARLES CRASER

Print/Type Name/Title

TRUCK NO. 13 PHONE NO. 573-2531

Acknowledgement of receipt of materials.

Signature [Signature] Date 7-11-00

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATOR  
(Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIXED REFUSE  
SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 12194

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

080045

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE IN 11010315 - NO. 101035

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY, MID-SOUTH

MAILING ADDRESS 5722 INTEGRITY DRIVE, MILLINGTON, TN 38053

### GENERATING LOCATION

PHONE NO. 872-9002

PHONE NO. \_\_\_\_\_

### SECTION III OPERATOR/CONTRACTOR

NAME CARP FENG

ADDRESS 2915 RIVERBROOK, MEMPHIS, TN 38109

PHONE NO. 544 0917

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY, MID-SOUTH, MILLINGTON, TN 38053

PHONE NO. 872-9002

### SECTION V WASTE DISPOSAL SITE

☐ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

DIESEL  
CONTAMINATED  
SOIL

CONTAINERS  
NO. \_\_\_\_\_  
TYPE \_\_\_\_\_

TOTAL QUANTITY  
UNIT \_\_\_\_\_

TYPE  
DM-METAL DRUM  
DP-PLASTIC DRUM  
B-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
C-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ: Asbestos, 9, NA2212, PG III

☐ REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

PAUL WILSON, ENV. PROT. SPEC. 7-11-00

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. CARP FENG

ADDRESS 2915 RIVERBROOK, MEMPHIS, TN 38109

DRIVER PAUL WILSON

Print/Type Name/Title

TRUCK NO. 11 PHONE NO. 572-2521

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO. \_\_\_\_\_

ADDRESS \_\_\_\_\_

DRIVER \_\_\_\_\_

Print/Type Name/Title

TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 12214

LOAD

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

060046

## GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE- COMPLETE SECTIONS I thru XII (Section 1, if required to and for hazardous waste characteristics)

## GENERATOR

SECTION I BFI WASTE CODE TN-11010315 NO-001635

## SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

MAILING ADDRESS 2722 INTEGRITY DR. MILLINGTON TN 39056

## SECTION III OPERATOR/CONTRACTOR

NAME CHRIS DE FAIR

ADDRESS 3915 RIVERPORT RD MEMPHIS TN 38109

## SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

## SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38056

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

## SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

## SECTION VII DESCRIPTION OF WASTE

DIESEL  
CONTAMINATED  
SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
UN-METAL DRUM  
UN-PLASTIC DRUM  
EPA-6MIL PLASTIC  
BAGS/WRAP  
TRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RQ: Asbestos, 9, NA2212, PG III  
NON-REGULATED

## SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

## SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

SANDY WILSON ENV. SPECIALIST 07-11-00

Print/Type Name & Title

Shipment Date

Signature

## SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

## SECTION XI TRANSPORTER I

NAME OF CO. CARP OF ENGINEERS

ADDRESS 3915 RIVERPORT RD MEMPHIS TN

DRIVER CHARLES CENSEN DRIVER

Print/Type Name/Title

TRUCK NO. 12 PHONE NO. 573 2501

Acknowledgement of receipt of materials

Signature [Signature] Date 7-11-00

## SECTION XII TRANSPORTER II

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISCREPANCY INDICATION SPACE

## DISPOSAL SITE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

## SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

7-11-00  
Receipt Date

## DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE





BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 17722

060047

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 211010212 NO 001635

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY DHD SOUTH

MAILING ADDRESS 5722 JEFFERSON RD. MILLINGTON TN 38053

### SECTION III OPERATOR/CONTRACTOR

NAME SCRP OF ENCL.

ADDRESS 2915 RIVERBAPTIST RD. MEMPHIS TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY DHD SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### GENERATING LOCATION

PHONE NO. 871 5902

PHONE NO.

PHONE NO. 544 0947

PHONE NO. 544 5901

### PHYSICAL SITE LOCATION

PHONE NO. (901) 872-7200

(901) 576-7588

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

DIESEL  
CONTAMINATED  
SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

10 405

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
BA-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

REGULATED

RQ, Asbestos, 9, NA2212, PG III

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

DAVID WILSON, ENCL. PROD. SPEC. 7-11-05

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. SCRP OF ENCL.

ADDRESS 2915 RIVERBAPTIST RD. MEMPHIS TN

DRIVER DAVID WILSON

Print/Type Name/Title

TRUCK NO. 11 PHONE NO. 573-2521

Acknowledgement of receipt of materials.

7-11-05

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATE  
(Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

WALTER H. HOFFER  
AUTHORIZED AGENT (PLEASE PRINT)

Walter H. Hoffer  
SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX W/  
ATTN



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 12-237

060067

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE-COMplete SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

### SECTION I BFI WASTE CODE

### SECTION II GENERATOR

NAME BAUM

MAILING ADDRESS 5722 Tenth

### SECTION III OPERATOR/CONTRACTOR

NAME City of Memphis

ADDRESS 2915

### SECTION IV OWNER

NAME BAUM

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

Asbestos  
contaminated  
soil

CONTAINERS  
NO. TYPE

1

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
M-METAL DRUM  
PM-PLASTIC DRUM  
B-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
☐ REGULATED

RQ, Asbestos, 9, NA2212, PG III  
☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Randy Wilson  
Print/Type Name & Title  
[Signature]  
Signature

07-11-00  
Shipment Date

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

[Signature]  
Print/Type Name & Title

[Signature]  
Shipment Date

[Signature]  
Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF COMPANY CORP OF ENGINEERS

ADDRESS 2915

DRIVER CHARLES CEASER

Print/Type Name / Title

TRUCK NO. 12 PHONE NO. 573-2521

Acknowledgement of receipt of materials.

[Signature]  
Signature

7-11-00  
Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

[Signature]  
Signature

[Signature]  
Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATES  
(Landfill use only)

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Joe Bell

AUTHORIZED AGENT (PLEASE PRINT)

Joe Bell

SIGNATURE OF AUTHORIZED AGENT

7-11-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
AT TOP OF

LMS TICKET NO. 1001

060066

## NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

GENERATOR				
GENERATOR INSTRUCTIONS		SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI ASBESTOS WASTE-COMplete SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)		
SECTION I BFI WASTE CODE <u>TN 21101315- NA 001635</u>				
SECTION II GENERATOR		GENERATING LOCATION		
NAME <u>NAVAL SUPPORT ACTIVITY- MID- SOUTH</u>		PHONE NO. <u>874 5902</u>		
MAILING ADDRESS <u>5702 INTEGRITY DR. MILLINGTON TN 38054</u>		PHONE NO. _____		
SECTION III OPERATOR/CONTRACTOR				
NAME <u>CORP OF ENGINEERS</u>				
ADDRESS <u>2915 RIVERPORT RD MEMPHIS TN 38109</u>		PHONE NO. <u>544 1947</u>		
SECTION IV OWNER				
NAME <u>NAVAL SUPPORT ACTIVITY MID- SOUTH</u>		PHONE NO. <u>874 5902</u>		
SECTION V WASTE DISPOSAL SITE		PHYSICAL SITE LOCATION		
<input checked="" type="checkbox"/> North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053				
<input type="checkbox"/> South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116		PHONE NO. <u>(901) 872-7200</u>		
SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)				
<u>Mphs. &amp; Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105</u>		(901) 576-7588		
<u>Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984</u>		PHONE NO. <u>(901) 423-6484</u>		
SECTION VII DESCRIPTION OF WASTE	CONTAINERS NO. TYPE	TOTAL QUANTITY UNIT	TYPE	UNITS
<u>DIESEL</u>			DM-METAL DRUM	P-POUND
<u>SOIL</u>	<u>1 T</u>	<u>12 Y</u>	DM-PLASTIC DRUM	Y-YARDS
			B-6 MIL PLASTIC	M-CUBIC
			BAGS/WRAP	METER
			T-TRUCK	Y-CUBIC
			C-OTHER	YARDS
				O-OTHER
ASBESTOS WASTE		RQ, Asbestos, 9, NA2212, PG III		
<input type="checkbox"/> REGULATED		<input checked="" type="checkbox"/> NON-REGULATED		
SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION				
<u>NONE</u>				
SECTION IX GENERATOR CERTIFICATION		SECTION X OPERATOR CERTIFICATION (ASBESTOS)		
I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.		I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.		
<u>PANDY WILSON, ENV.</u> <u>07-11-00</u>				
Print/Type Name & Title		Shipment Date		
Signature <u>[Signature]</u>		Operators Signature _____		
TRANSPORTER				
SECTION XI TRANSPORTER 1		SECTION XII TRANSPORTER 2		
NAME OF CO. <u>CORP OF ENG</u>		NAME OF CO. _____		
ADDRESS <u>2915 RIVERPORT RD</u>		ADDRESS _____		
DRIVER <u>DAVE WHEELER</u>		DRIVER _____		
Print/Type Name/Title		Print/Type Name/Title		
TRUCK NO. <u>11</u> PHONE NO. <u>573-2521</u>		TRUCK NO. _____ PHONE NO. _____		
Acknowledgement of receipt of materials.		Acknowledgement of receipt of materials.		
Signature <u>[Signature]</u> Date _____		Signature _____ Date _____		
DISPOSAL SITE				
DISCREPANCY INDICATION SPACE		DISPOSAL COORDINATES (Landfill use only)		
Print/Type Name		Signature/Date		
SITE AND ADDRESS		DISPOSAL INSTRUCTIONS		
<input type="checkbox"/> SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135				
<input checked="" type="checkbox"/> NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224				
I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
<u>Joe Belk</u>				
AUTHORIZED AGENT (PLEASE PRINT)				
<u>Joe Belk</u>				
SIGNATURE OF AUTHORIZED AGENT		Receipt Date <u>7/11/00</u>		
		MIX WITH FUSE AT TOE OF SLOPE		



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 1277

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

060065

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 211010315- A10- 001635

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY AID- SOUTH

MAILING ADDRESS 5722 INTEGRITY DR. MILLINGTON TN 38054

### SECTION III OPERATOR/CONTRACTOR

NAME CORP OF ENG

ADDRESS 2915 RIVERPORT RD MEMPHIS TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY AID- SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

DIESEL SOIL  
CONTAMINATED

CONTAINERS  
NO. TYPE

1

T

TOTAL QUANTITY  
UNIT

12

Y

TYPE  
M-METAL DRUM  
P-PLASTIC DRUM  
A-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

REGULATED

RQ, Asbestos, 9, NA2212, PG III

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RAADY WILSON ENG

Print/Type Name & Title

7-11-00

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. CORP OF ENG

ADDRESS 2915 RIVERPORT RD

DRIVER CHARLES CEASE

Print/Type Name/Title

TRUCK NO. 12 PHONE NO. 573-2521

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATES  
(Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

7-11-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH FILL  
AT TOP OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 17710

LOAD

060063

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 211010315-NO-001635

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

MAILING ADDRESS 5222 INTEGRITY DR. MILLINGTON TN 38051

### SECTION III OPERATOR/CONTRACTOR

NAME CORP OF ENG

ADDRESS 2915 RIVERPORT RD MEMPHIS TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID-SOUTH

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38051

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

DIESEL  
CONTAMINATED  
SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
DM-METAL DRUM  
PM-PLASTIC DRUM  
BA-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RQ, Asbestos, 9, NA2212, PG III  
NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

DANAH WILSON ENV. SPEC 7-11-00

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the content of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. CORP OF ENGINEERS

ADDRESS 915 RIVERPORT RD MEMPHIS 38109

DRIVER DAVEY WHEAT

Print/Type Name/Title

TRUCK NO. 11 PHONE NO. 573-2521

Acknowledgement of receipt of materials.

DAVEY WHEAT 7-11-00

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
ATTOL



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 12 321

LO104

080050

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE IN211010315 NO-001635

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY, MID-SOUTH

MAILING ADDRESS 5222 INTEGRITY DR MILLINGTON TN 38050

### SECTION III OPERATOR/CONTRACTOR

NAME CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD MEMPHIS TN 38109

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY, MID-SOUTH

### SECTION V WASTE DISPOSAL SITE

☐ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053  
☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

DIESEL  
CONTAMINATED  
SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
2A-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RO, Asbestos, 9, NA2212; PG III  
☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON FNU. SPEC. 7-11-00  
Print/Type Name & Title Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD MEMPHIS TN

DRIVER CHARLES CENSEA

TRUCK NO. 12 PHONE NO. 573-2521

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224  
I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

WALTER BRETHERTON  
AUTHORIZED AGENT (PLEASE PRINT)

WALTER BRETHERTON  
SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH R  
AT TOE OF



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 17-26

060048

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE 17-26-17-26

### SECTION II GENERATOR

NAME ADAMS SUPPLY COMPANY

GENERATING LOCATION

PHONE NO. 874 5900

MAILING ADDRESS 1726 TOWN

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORP OF TENN.

ADDRESS 1726 TOWN

PHONE NO. 874 5900

### SECTION IV OWNER

NAME ADAMS SUPPLY COMPANY

PHONE NO. 874 5900

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38050

PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

DEBRIS  
CONTAMINATED  
SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

10 Y

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
BM-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
☐ REGULATED

RQ, Asbestos, 9, NA2212, PG III  
☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

KANDY WILSON  
Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operator's Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. ADAMS SUPPLY COMPANY

ADDRESS 1726 TOWN

DRIVER ADAMS

Print/Type Name/Title

TRUCK NO. 1726 PHONE NO. 874 5900

Acknowledgement of receipt of materials.

Signature Walter Tortorella Date 7-11-00

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

WALTER TORTORELLA  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH  
AT TO



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 17346

060049

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR  
INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE IN-110-0-0-15

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY, OLD SOUTH

GENERATING LOCATION

PHONE NO. 874 5400

MAILING ADDRESS 5722 INDEPENDENCE RD. MILLINGTON, TN 38057

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD. MEMPHIS, TN 38109

PHONE NO. 544-0707

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY, OLD SOUTH

PHONE NO. 874 5400

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

SOIL  
CONTAMINATED

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
BA-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC  
METER  
Y<sup>3</sup>-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON, ENV. SPEC.

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. CORP OF ENGINEERS

ADDRESS 2915 RIVERPORT RD. MEMPHIS, TN 38109

DRIVER CHARLES CENNER

Print/Type Name/Title

TRUCK NO. 12 PHONE NO. 573-0501

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATES  
(Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

WALTER KATERIECKI

AUTHORIZED AGENT (PLEASE PRINT)

Signature of Authorized Agent

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
... TOP OF SLOPE





BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 10751

060061

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR  
INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE-COMplete SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN-11110315 N1 001-85

SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY AND SOUTH

MAILING ADDRESS 5702 INDEPENDENT DR. MILLINGTON TN 38054

SECTION III OPERATOR/CONTRACTOR

NAME CORN OF ENGINEERS

ADDRESS 2915 RIVERPORT RD. MEMPHIS, TN 38197

SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY AND SOUTH

SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 380

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

SECTION VII DESCRIPTION OF WASTE

DIESEL  
CONTAMINATED  
SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
3A-6MIL PLASTIC  
BAGS/WRAP  
-TRUCK  
-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RQ, Asbestos, 9, NA2212, PG III  
NON-REGULATED

SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON

Print/Type Name & Title

Shipment Date

Signature

SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

SECTION XI TRANSPORTER 1

NAME OF CO. CORN OF ENGINEERS

ADDRESS 2915 RIVERPORT RD MEMPHIS

DRIVER ANDREW WATSON

Print/Type Name / Title

TRUCK NO. 11 PHONE NO. 573-0521

Acknowledgement of receipt of materials.

Signature

Date

SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name / Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature / Date

## SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

WALTER HORTFIELD  
AUTHORIZED AGENT (PLEASE PRINT)

Walter H. Horton  
SIGNATURE OF AUTHORIZED AGENT

Receipt Date

## DISPOSAL INSTRUCTIONS

MIXED  
ATTN



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 12364

060060

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

GENERATOR  
INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE 7A 11-10-15 NO 35

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY

### GENERATING LOCATION

PHONE NO. 901 576

MAILING ADDRESS 2722 TAYLOR RD. MILLINGTON, TN 38053

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME SCARLETT E. FARMER

PHONE NO. 901 894

ADDRESS 2915 RINEHART RD. MILLINGTON, TN 38053

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY

PHONE NO. 901 576

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

Asbestos  
2016

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

12 Y

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
B-6MIL PLASTIC  
BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WALTER PORTERFIELD 7-11-10

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operator's Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. PORTERFIELD

ADDRESS 4050 N. W. 10th Ave. Ft. Lauderdale, FL 33309

DRIVER WALTER PORTERFIELD

Print/Type Name/Title

TRUCK NO. 12 PHONE NO. 572 2521

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

Signature / Date

### DISPOSAL COORDINATES (Landfill use only)

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

WALTER PORTERFIELD  
AUTHORIZED AGENT (PLEASE PRINT)

Walter Porterfield  
SIGNATURE OF AUTHORIZED AGENT

7-11-10  
Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 10 21

N 060059

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE 7AL-110-0215-NH-1-95

### SECTION II GENERATOR

NAME NASH & SONS, INC. 2005

MAILING ADDRESS 2005 T. J. S. Bldg. Millington, TN 38053

### SECTION III OPERATOR/CONTRACTOR

NAME C. P. P. ENGINEERS

ADDRESS 11 N. Main St. Millington, TN 38053

### SECTION IV OWNER

NAME NASH & SONS, INC. 2005

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

### SECTION VII DESCRIPTION OF WASTE

3000 L  
CONTAMINATED  
SOIL

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

10 Y

TYPE UNITS  
DM-METAL DRUM P-POUND  
DM-PLASTIC DRUM Y-YARDS  
3A-6MIL PLASTIC M<sup>3</sup>-CUBIC  
BAGS/WRAP METER  
T-TRUCK Y<sup>3</sup>-CUBIC  
O-OTHER YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

PANDA MILLING CO. DEC. 9-11

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. PANDA MILLING CO.

ADDRESS 11 N. Main St. Millington, TN 38053

DRIVER PANDA MILLING CO.

Print/Type Name/Title

TRUCK NO. 11 PHONE NO. 572-0501

Acknowledgement of receipt of materials.

Signature Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

Print/Type Name

DISPOSAL COORDINATES  
(Landfill use only)

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

WALTER H. HENFIELD

AUTHORIZED AGENT (PLEASE PRINT)

Signature of Authorized Agent

Receipt Date

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15882

NE 060483

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE- COMPLETE SECTIONS: I, II, V, VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211 010504 NO. 003187

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

### GENERATING LOCATION

PHONE NO. 874-5902

MAILING ADDRESS 5922 INTEGRITY DR, MILLINGTON, TN 38054

PHONE NO. \_\_\_\_\_

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN, 38109

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

### PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL + DEBRIS

### CONTAINERS

NO. 1 TYPE T

### TOTAL QUANTITY

UNIT

### TYPE

☐ METAL DRUM  
☐ PLASTIC DRUM  
☐ 6MIL PLASTIC BAGS/WRAP  
☐ TRUCK  
☐ OTHER

### UNITS

P-POUND  
Y-YARDS  
M<sup>3</sup>-CUBIC METER  
Y<sup>3</sup>-CUBIC YARDS  
O-OTHER

### ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

☐ REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENV. PROF. SEC. DIARY 62000

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER I

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 1045 51 BRIGHTON, TN 38011

DRIVER KEN CARROLL

Print/Type Name / Title

TRUCK NO. 5 PHONE NO. 837-3888

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER II

NAME OF CO. \_\_\_\_\_

ADDRESS \_\_\_\_\_

DRIVER \_\_\_\_\_

Print/Type Name / Title

TRUCK NO. \_\_\_\_\_ PHONE NO. \_\_\_\_\_

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

### DISPOSAL COORDINATES (Landfill use only)

Print/Type Name

Signature / Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

Receipt Date 8-1-00

### DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE



BFI 01  
P.O. B  
MILLI  
(901)

5-203

CKET NO. 15890

NE 060484

# HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

COMPLETE SECTIONS I., II., V., VII., VIII., IX., XI  
COMPLETE SECTIONS I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211010504 NR. 003189

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

GENERATING LOCATION

PHONE NO. 874-3902

MAILING ADDRESS 5922 INTEGRITY DR., MILLINGTON, TN 38054

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORPS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD, MEMPHIS, TN, 38054

PHONE NO. 544-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

PHYSICAL SITE LOCATION

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED

SOIL & DEBRIS

CONTAINERS  
NO. TYPE

1 T

TOTAL QUANTITY  
UNIT

TYPE  
DM-METAL DRUM  
DN-PLASTIC DRUM  
EA-6MIL PLASTIC  
BAGS/WRAP  
FRUCK  
OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

ASBESTOS WASTE

RQ, Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

RANDY WILSON ENCL. PROT. SPEC. DIAGNOSTIC

Print/Type Name & Title

Shipment Date

Signature

### SECTION X OPERATOR CERTIFICATION (ASBESTOS)

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print/Type Name & Title

Shipment Date

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 14451 BRIGHTON, TN 38011

DRIVER Mitchell Compton

Print/Type Name/Title

TRUCK NO. 6 PHONE NO. 831-3888

Acknowledgement of receipt of materials.

Mitchell Compton

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Fay Smith  
AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE OF AUTHORIZED AGENT

8-1-00  
Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH REFUSE  
AT TOE OF SLOPE**



BFI OF TENNESSEE, INC.  
P.O. BOX 1207  
MILLINGTON, TN 38083  
(901) 872-7200

LMS TICKET NO. 15578

080482

# NON-HAZARDOUS SPECIAL AND ASBESTOS WASTE MANIFEST

## GENERATOR

### GENERATOR INSTRUCTIONS

SPECIAL WASTE - COMPLETE SECTIONS I, II, V, VII, VIII, IX, XI  
ASBESTOS WASTE - COMPLETE SECTIONS I thru XII (Section I, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE TN 0211 01 0504 NO 003185

### SECTION II GENERATOR

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

MAILING ADDRESS 5722 INTEGRITY DRIVE, MILLINGTON TN 38054

### GENERATING LOCATION

PHONE NO. 874-5902

PHONE NO.

### SECTION III OPERATOR/CONTRACTOR

NAME CORDS OF ENGINEERS

ADDRESS 2915 RIVERPORT RD. MEMPHIS, TN 38109

PHONE NO. 541-0947

### SECTION IV OWNER

NAME NAVAL SUPPORT ACTIVITY MID SOUTH

PHONE NO. 874-5904

### SECTION V WASTE DISPOSAL SITE

☒ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38053

☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

### PHYSICAL SITE LOCATION

PHONE NO. (901) 872-7200

### SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)

Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105

(901) 576-7588

Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

PHONE NO. (901) 423-6484

### SECTION VII DESCRIPTION OF WASTE

FUEL OIL CONTAMINATED  
SOIL AND DEBRIS

### CONTAINERS

NO. 1 TYPE T

### TOTAL QUANTITY

UNIT

TYPE  
☐ M-METAL DRUM  
☐ M-PLASTIC DRUM  
☐ 4-6 MIL PLASTIC  
BAGS/WRAP  
☐ T-TRUCK  
☐ C-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC  
METER  
Y-CUBIC  
YARDS  
O-OTHER

### ASBESTOS WASTE

RQ: Asbestos, 9, NA2212, PG III

REGULATED

☒ NON-REGULATED

### SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

### SECTION IX GENERATOR CERTIFICATION

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Print/Type Name & Title

Shipment Date

Print/Type Name & Title

Shipment Date

Signature

Operators Signature

## TRANSPORTER

### SECTION XI TRANSPORTER 1

NAME OF CO. R.L. INMAN TRUCKING

ADDRESS 1444 S. 1st AVE. MILLINGTON, TN 38011

DRIVER WILLIE COLEMAN

Print/Type Name/Title

TRUCK NO. 6 PHONE NO. 337-5858

Acknowledgement of receipt of materials.

Signature

Date

### SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO. PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

## DISPOSAL SITE

### DISCREPANCY INDICATION SPACE

### DISPOSAL COORDINATES (Landfill use only)

Print/Type Name

Signature/Date

### SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135

☒ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

AUTHORIZED AGENT (PLEASE PRINT)

SIGNATURE

AUTHORIZED AGENT

Receipt Date

### DISPOSAL INSTRUCTIONS

**MIX WITH  
AT TOE OF SLOPE**

GENERATOR/OPER

ORIGINAL - WHITE

DISTRICT OFFICE - GREEN

LANDFILL - YELLOW

TRANSPORTER - PINK

GENERATOR FILE - GOLD

GENERATOR INSTRUCTIONS

GENERATOR

SPECIAL WASTE- COMPLETE SECTIONS: I., II., V., VII., VIII., IX., XI  
ASBESTOS WASTE- COMPLETE SECTIONS: I thru XII (Section 1, if required to analyze for hazardous waste characteristics)

SECTION I BFI WASTE CODE

SECTION II GENERATOR NAME

MAILING ADDRESS

SECTION III OPERATOR/CONTRACTOR NAME

ADDRESS

SECTION IV OWNER NAME

SECTION V WASTE DISPOSAL SITE

☐ North Shelby Landfill 7111 Old Millington Rd. Millington, Tenn. 38116  
☐ South Shelby Landfill 5494 Malone Rd. Memphis, Tenn. 38116

SECTION VI RESPONSIBLE AGENCY (LOCAL, STATE, EPA)  
Mphs. & Shelby Cty Health Dept. 814 Jefferson Memphis, TN 38105  
Tenn. Div. of Air Pollution 295 Summer Jackson, TN 38301-3984

SECTION VII DESCRIPTION OF WASTE

CONTAMINATED

CONTAINERS NO. TYPE

TOTAL QUANTITY UNIT

TYPE  
DM-METAL DRUM  
DM-PLASTIC DRUM  
BA-6MIL PLASTIC BAGS/WRAP  
T-TRUCK  
O-OTHER

UNITS  
P-POUND  
Y-YARDS  
M-CUBIC METE  
Y-CUBIC YARDS  
O-OTHER

ASBESTOS WASTE  
REGULATED

RQ, Asbestos, 9, NA2212, PG III  
NON-REGULATED

SECTION VIII SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

NONE

SECTION IX GENERATOR CERTIFICATION

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

SECTION X OPERATOR CERTIFICATION (ASBESTOS)

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Print/Type Name & Title

Shipment Date

Signature

Print/Type Name & Title

Shipment Date

Operators Signature

SECTION XI TRANSPORTER 1

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO.

PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

TRANSPORTER

SECTION XII TRANSPORTER 2

NAME OF CO.

ADDRESS

DRIVER

Print/Type Name/Title

TRUCK NO.

PHONE NO.

Acknowledgement of receipt of materials.

Signature

Date

DISCREPANCY INDICATION SPACE

DISPOSAL SITE

DISPOSAL COORDINATES  
(Landfill use only)

Print/Type Name

Signature/Date

SITE AND ADDRESS

☐ SOUTH SHELBY 5494 MALONE RD. PERMIT# SNL 79-106-0135  
☐ NORTH SHELBY 7111 OLD MILLINGTON RD. PERMIT# SNL 79-106-0224  
I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Joe Belk

AUTHORIZED AGENT (PLEASE PRINT)

Joe Belk

SIGNATURE OF AUTHORIZED AGENT

Receipt Date

DISPOSAL INSTRUCTIONS

MIX WITH REFUSE  
AT TOE OF SLOPE

GENERATOR/OPERATOR ORIGINAL - WHITE • DISTRICT OFFICE - GREEN • LANDFILL - YELLOW • TRANSPORTER - PINK • GENERATOR FILE - GOLDENROD

## **Appendix D**

### **Geophysics Investigation — Building S-235**



**APPENDIX D**

---

**Geophysics Investigation of  
the Area Southwest of Building S-235  
NSA Mid-South  
Millington, Tennessee**

---

**Prepared for:**

**The Department of the Navy  
Southern Division Naval Facilities Engineering Command  
North Charleston, South Carolina**

**Prepared by:**

**EnSafe Inc.  
5724 Summer Trees Drive  
Memphis, Tennessee 38134  
(901) 372-7962**

**January 2001**

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## EXECUTIVE SUMMARY

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During a 1999 soil removal at an oil-changing ramp south of Building S-235 on the NSA Mid-South Southside, workers encountered a 6-inch steel pipe which extended west toward the Seabees compound, but terminated at a flange short of the compound. Since the purpose of the pipe was unknown, a geophysical survey was conducted to map any pipe segments extending into the Seabees compound and to detect any underground storage tanks that might be present.

The geophysics provided an image of buried metals at the site down to a depth of 2 meters below land surface. Buried metals with a strongly geometric pattern are indicated. These are likely shallowly buried aluminum runway mats, used to stabilize soil for work areas and parking. The mats have previously been discovered at several locations across NSA Mid-South. Several minor geophysical responses were noted, none of which suggest the presence of tanks. However, it is recommended that several areas of the site be excavated to confirm the geophysical imaging.

## **D.0 INTRODUCTION**

During a soil-removal procedure conducted in 1999 at an oil-changing ramp south of Building S-235 on the NSA Mid-South Southside, workers encountered a 6-inch steel pipe which extended west toward the Seabees compound, but terminated at a flange short of the compound. Since the purpose of the pipe was unknown, EnSafe performed a geophysical survey to map any pipe segments extending into the Seabees compound and to detect any underground storage tanks (USTs) that might be present.

Figure D-1 shows the study location with respect to previous geophysical work conducted over the past five years at NSA Mid-South.

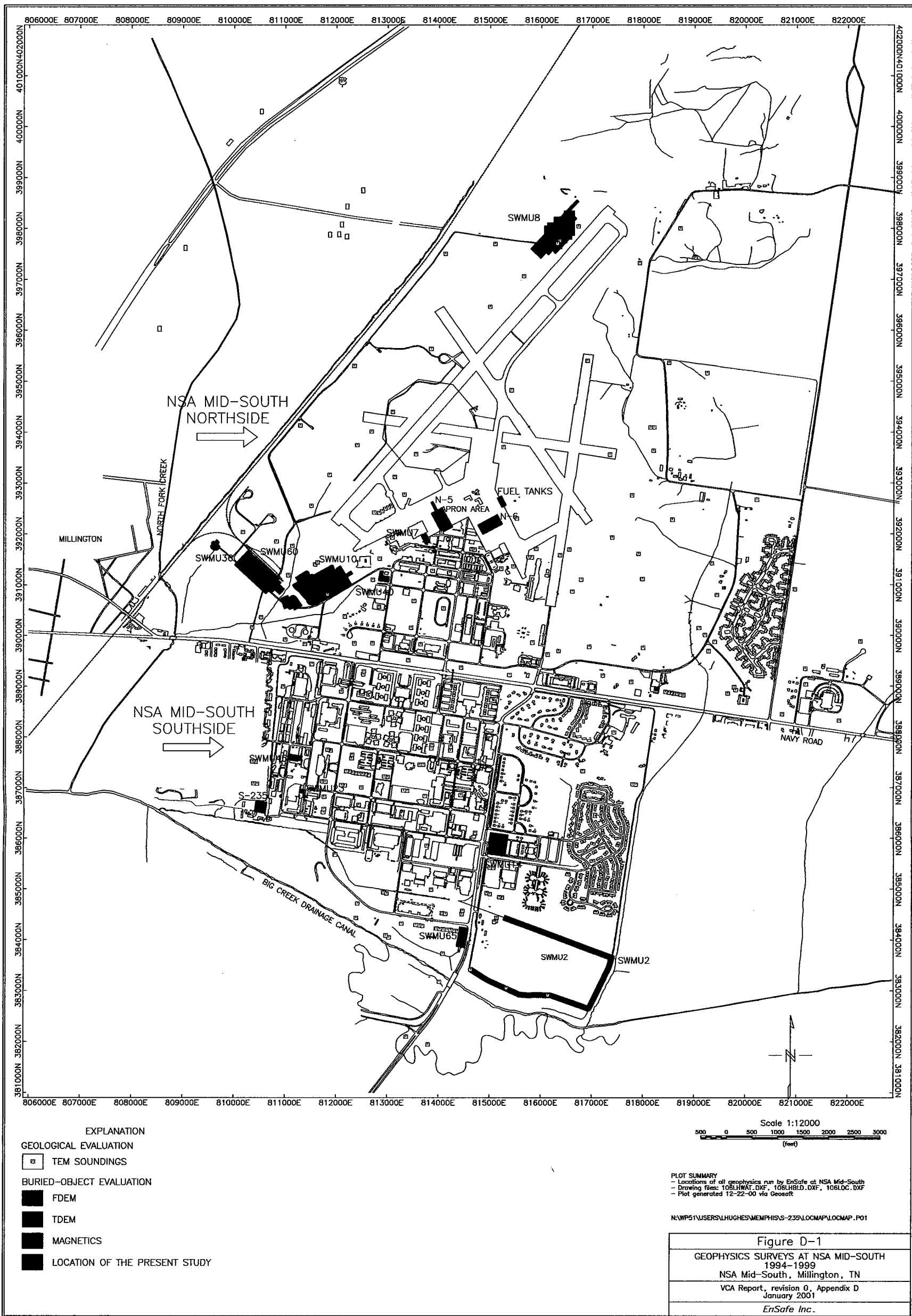
## **D.1 Technology and Logistics**

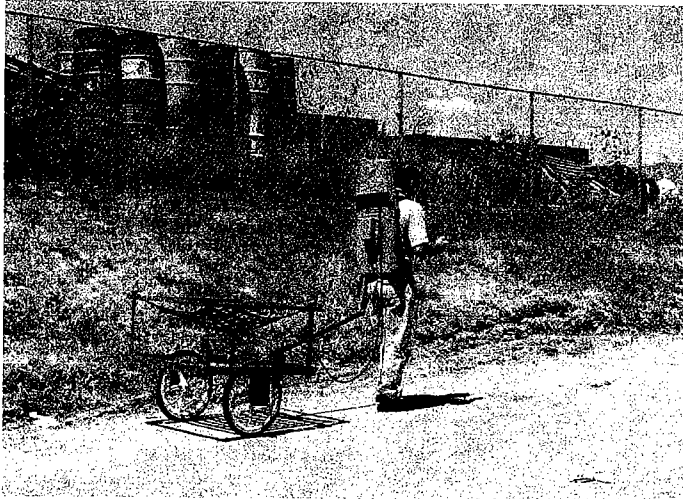
### **D.1.1 Methodology**

This small site was expected to have multiple near-surface metal targets, primarily underground lines and reinforced concrete slabs, as well as a metal fence. Thus, a high-resolution subsurface metal-detecting ability was needed. Time domain electromagnetics (TDEM) meets these requirements.

A Geonics EM-61 metal detector (Figure D-2) was used to acquire TDEM data. The instrument can identify all types of metal, but is insensitive to changes in soil moisture or geology. Penetration is approximately 7 feet and lateral resolution is up to 1 foot. Thus, TDEM offers less penetration, but higher resolution than frequency domain electromagnetics (FDEM). Useful data can be obtained as close as 7 feet from aboveground metal objects, making TDEM a good choice in urban and industrial settings.

The EM-61 consists of two antenna frames mounted atop one another on a wheeled cart. The bottom frame carries a transmitting and receiving antenna; the top frame carries a second receiving antenna. When current is pulsed through the transmitting antenna, an electromagnetic field is generated. The field flows uniformly into the earth, dissipating rapidly with time. The elapsed





*Figure D-2. The EM-61 Metal Detection System. The orange frame includes a top and bottom antenna. Signal is transmitted by the bottom antenna and received by both antennas. Voltage data are sent to a hand-held data recorder. The backpack supplies power and an electronic interface for the system.*

time after the current pulse is broken down into “early time” and “late time.” In early time, right after the current pulse, the electromagnetic field from the soil is still strong. But the field within the soil diminishes rapidly with time because it is an imperfect conductor, causing rapid energy loss. In late time (typically a few milliseconds), the field a result of the

soil has diminished to zero. However, if metals are present, electromagnetic energy channeling preferentially through them causes a sustained signal because

metals are better conductors than soil. Thus, if one makes a field measurement in late time, the geologic response is nil, and any remaining response (aside from noise) is a result of the effect of buried metals. When voltages are measured as a function of the instrument’s position on the ground and plotted in plan view, an image of the buried metals can be constructed.

Four data parameters are available for interpretation: responses in the top and bottom antennas, and two weighted differences between the antenna responses (one weighted “shallow,” favoring the bottom antenna, and the other “deep,” favoring the top antenna). All data are in units of millivolts. The bottom antenna responds more strongly to near-surface metals than the top antenna, so the antenna-difference data can be regarded as the response from deeper objects, with some suppression of near-surface “noise” from objects such as small wires and surface debris. Antenna responses are not directly tied to a physical earth property, but instead show only relative changes in metal content. Both positive and negative departures from zero may be significant.

### **D.1.2 Field Logistics**

The S-235 site was surveyed using a tape measure, referencing convenient fence lines with known state-plane coordinates. A baseline was established on the south part of the grid and all lines began along the baseline and moved northward. The data were acquired digitally on November 30, 1999, downloaded to a computer, edited, and processed.

### **D.1.3 Data Quality Control Procedures**

Data quality was checked by repeated data acquisition along a 100-foot-long section of the baseline (847N, located along the gravel access road crossing the site). The baseline was occupied at the beginning, middle, and end of the survey.

Figure D-3 shows the baseline data. Data for the top antenna are noisier, probably because of a weaker signal.<sup>1</sup> There is also a significant difference in the three repeats on the west (left) half of the graph, which is not attributable to noise. The data suggest some sort of antenna or electronics problem for the top antenna only. Alternatively, it is possible that the differences are caused by positioning errors with respect to a deeper, off-line cultural feature as the cart is pulled down the baseline; at this site, one could be several feet off the baseline during the tests. Indeed, an off-line conductor is shown in the data for this area. However, the overall appearance of the different responses makes an antenna problem a more-likely explanation. Note that the same kind of differences occur in the lower antenna, but they are smaller.

Because of positioning sensitivity to subparallel culture, response curves tend to shift along the station position axis, making it difficult to compare them for repeatability. To overcome this

---

<sup>1</sup>Signal strength decreases with distance from the ground; thus, the top antenna's signal strength is smaller than that of the bottom antenna, and its signal-to-noise ratio is poorer. To accommodate data-processing techniques that take differences between the two antenna responses, the weaker upper signal is amplified to emulate the amplitude of the lower antenna. This also amplifies the inherent noise.

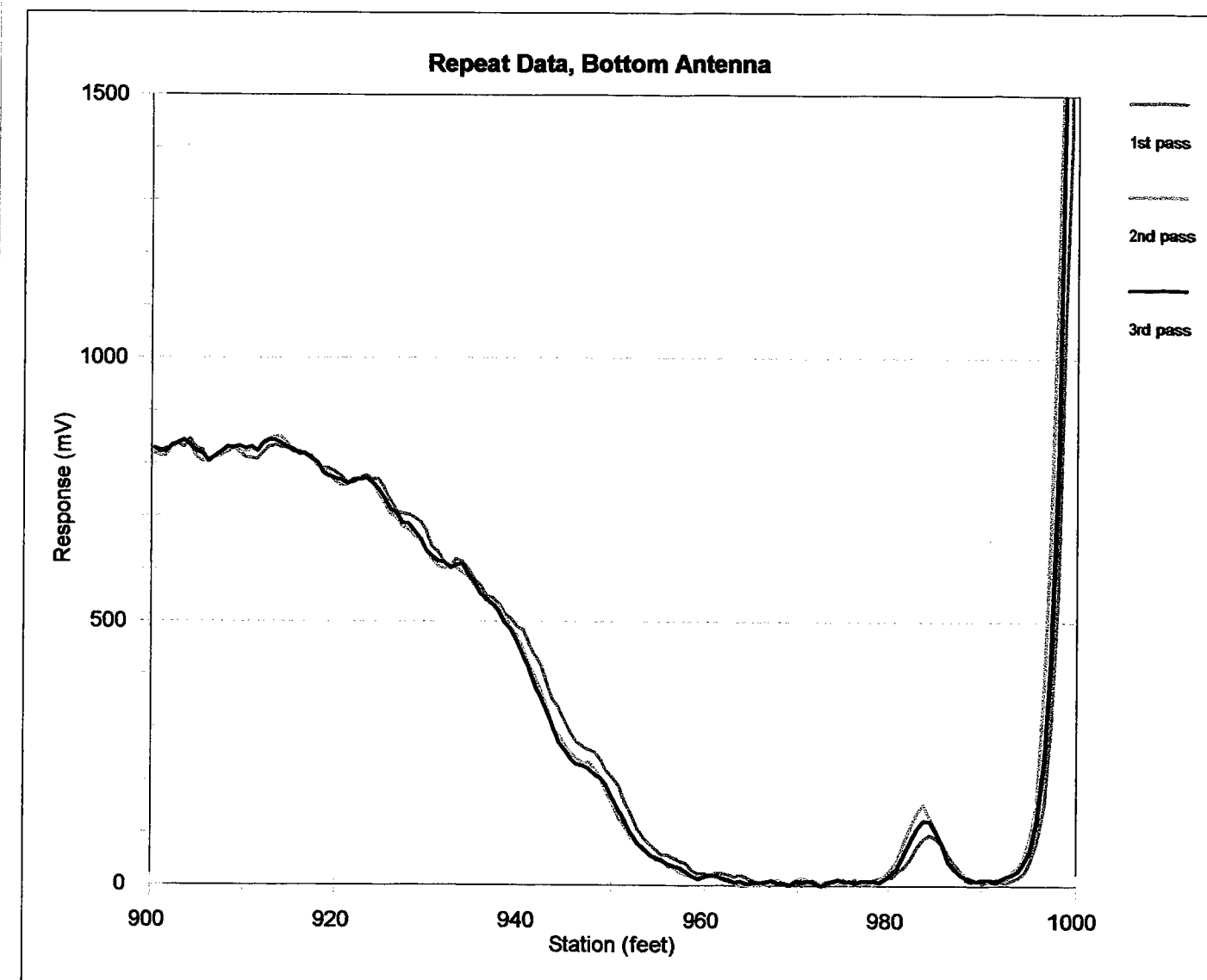
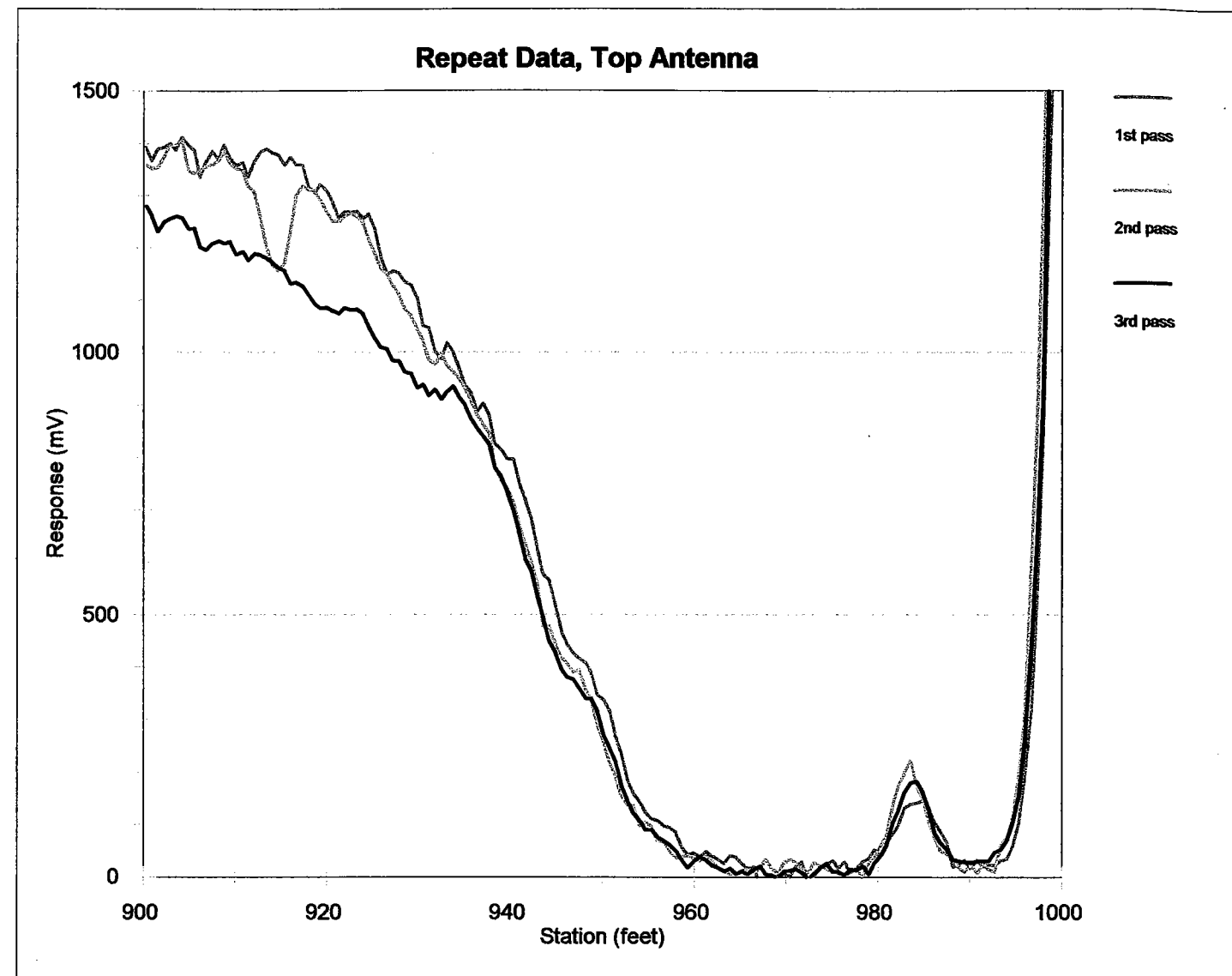


Fig. D-3. Three data repeats along the baseline.



difficulty, a subset of the data was selected in the low-response zone between stations 960 and 980. Figure D-4 shows the data, at a considerably expanded vertical scale, for this part of the baseline. In this non-metallic area, much of the variability appears to be random and probably consists of instrument noise, minor positioning differences between the baseline passes, and other procedural-related errors. Consequently, these data appear to be a good indicator of the typical response errors one would encounter in actual field use.

The data were analyzed for measurement noise in the following way. For each of the 31 data locations between stations 960 and 980, the three top-antenna measurements and three bottom-antenna measurements were averaged and a standard deviation calculated. The system noise was approximated by averaging the 31 standard deviations, and adding the standard deviation of that average standard deviation to it. This gives a “nearly worst-case” estimate of how much any single measurement will depart from the assumed true value.

Table D-1 Data Precision Tests for the TDEM Survey		
Test	Top- Antenna Response (mV)	Bottom- Antenna Response (mV)
<b>Instrument Precision Error</b>		
Baseline test	±16.1	±6.4
QC pass/fail	PASS	PASS
<b>Benchmarks*</b>		
Typical 500-gal UST	850	490
Two side-by-side 1,000-gal USTs	1,550	880
Two side-by-side 2,000-gal USTs	2,700	1,500
<b>Note:</b> * The benchmark response may be positive or negative, depending on the way the electronics are configured.		

Table D-1 gives the results, compared with benchmarks established from previous TDEM surveys over tanks of known volume. The top antenna has a larger error than the bottom antenna, as expected. However, the error for both antennas calculated by the baseline measurements is nearly two orders of magnitude smaller than the expected response from a small UST. Hence, the level of noise present in these measurements does not materially impact our ability to find USTs at this site.

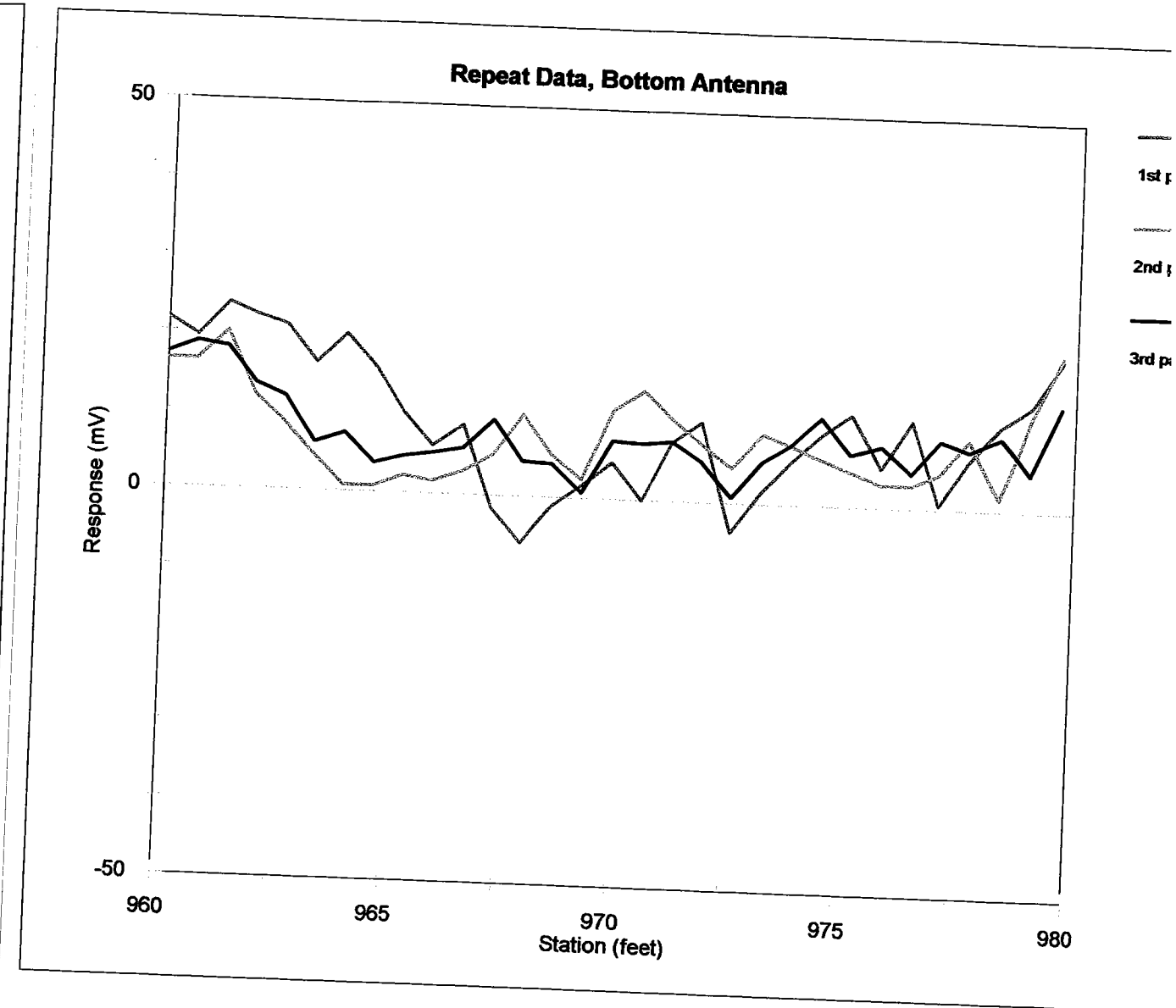
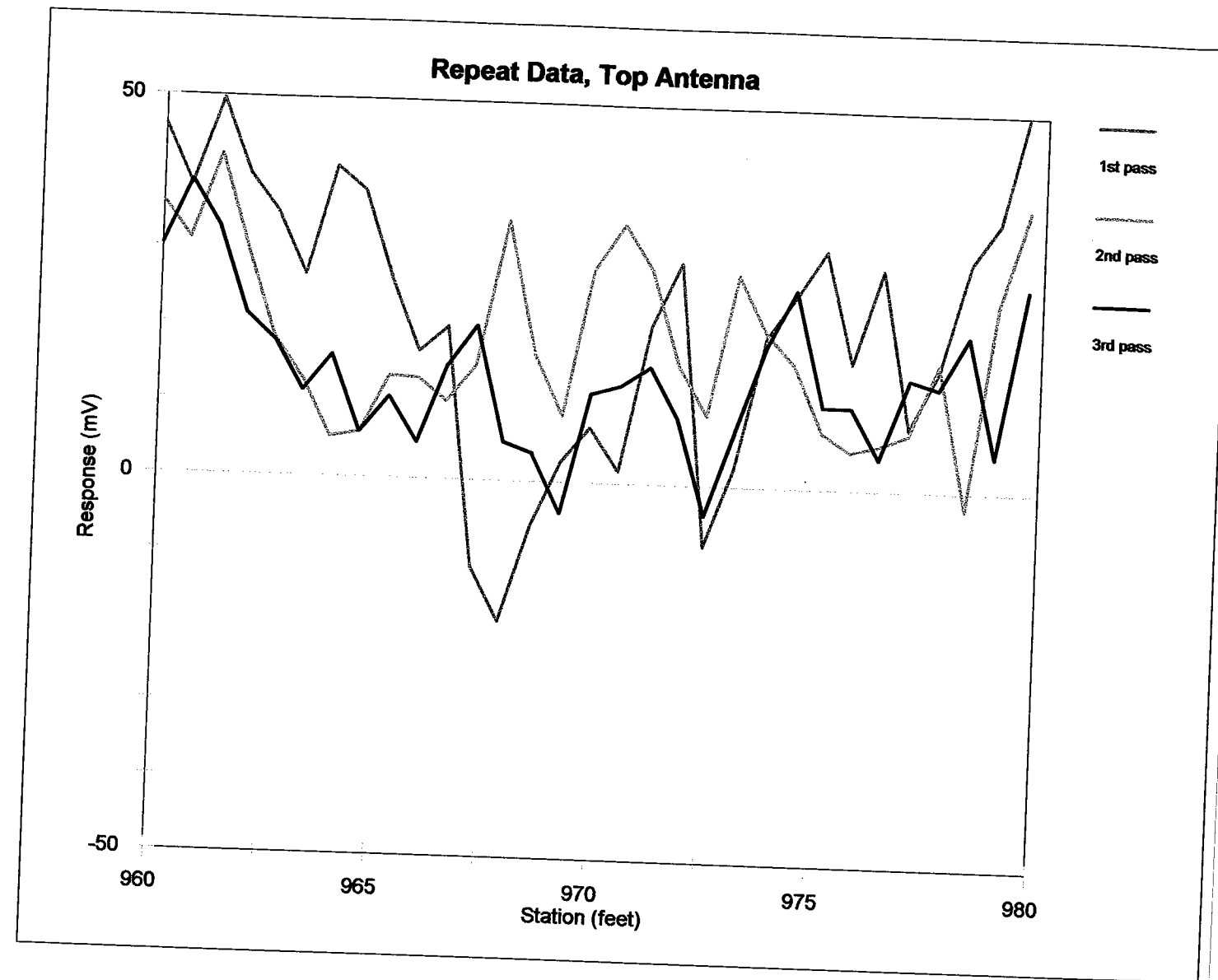


Fig. D-4. Detail of portion of the baseline repeats, showing antenna 1

Underscoring this conclusion is the fact that the antenna error would tend to produce false positives, not false negatives, so the character of the noise would not likely obscure a UST response.

*Spatial Aliasing* — Aliasing is an undersampling effect when the data density is too coarse to reliably detect small targets in the presence of noise. To avoid aliasing, data were collected every 0.6 foot along lines spaced 5 feet apart, which is sufficient to detect a 500-gallon UST.

*Instrument Response Time/Nonreciprocity Effects* — The EM-61 is usually advanced at a fairly rapid rate along predetermined lines, and in many cases, the work will proceed up one line and down the next, reversing the relative antenna directions. This procedure distorts the plan-view data plots for two reasons. First, the instrument has a short time delay, so a small shift occurs between the point when the data are recorded and when their values are recorded. Second, there is also a shift in plot position, depending on whether the antenna is pointed one way or the other (a nonreciprocity effect). These two factors tend to artificially shift an anomaly in the direction of travel. The problem can be recognized as a wavy pattern in a linear anomaly from a pipe or similar feature. At this site, all lines were run in the same direction (south to north) at a slow pace, eliminating the distortion.

#### **D.1.4 Anomaly Classification**

Anomalies were analyzed, not only for their geophysical characteristics such as size and amplitude, but also for the likelihood that each anomaly might represent an environmental concern, given available information such as site history and observed physical features. Based on all these criteria, geophysical anomalies are categorized as follows:

**Type A** — Strong, well-defined anomaly with characteristics of a buried object of potential concern or interest at the site. Some form of follow-up (site walkover, soil boring, trench, etc.), is recommended.

**Type B** — Weaker or more poorly defined anomaly less likely to be caused by a buried object of environmental concern; follow-up is less critical, but depends on the investigations of Type A anomalies.

**Type C** — Anomaly not thought to be caused by buried material of environmental concern; examples are anomalies from culture or natural changes in topography. Follow-up is not essential.

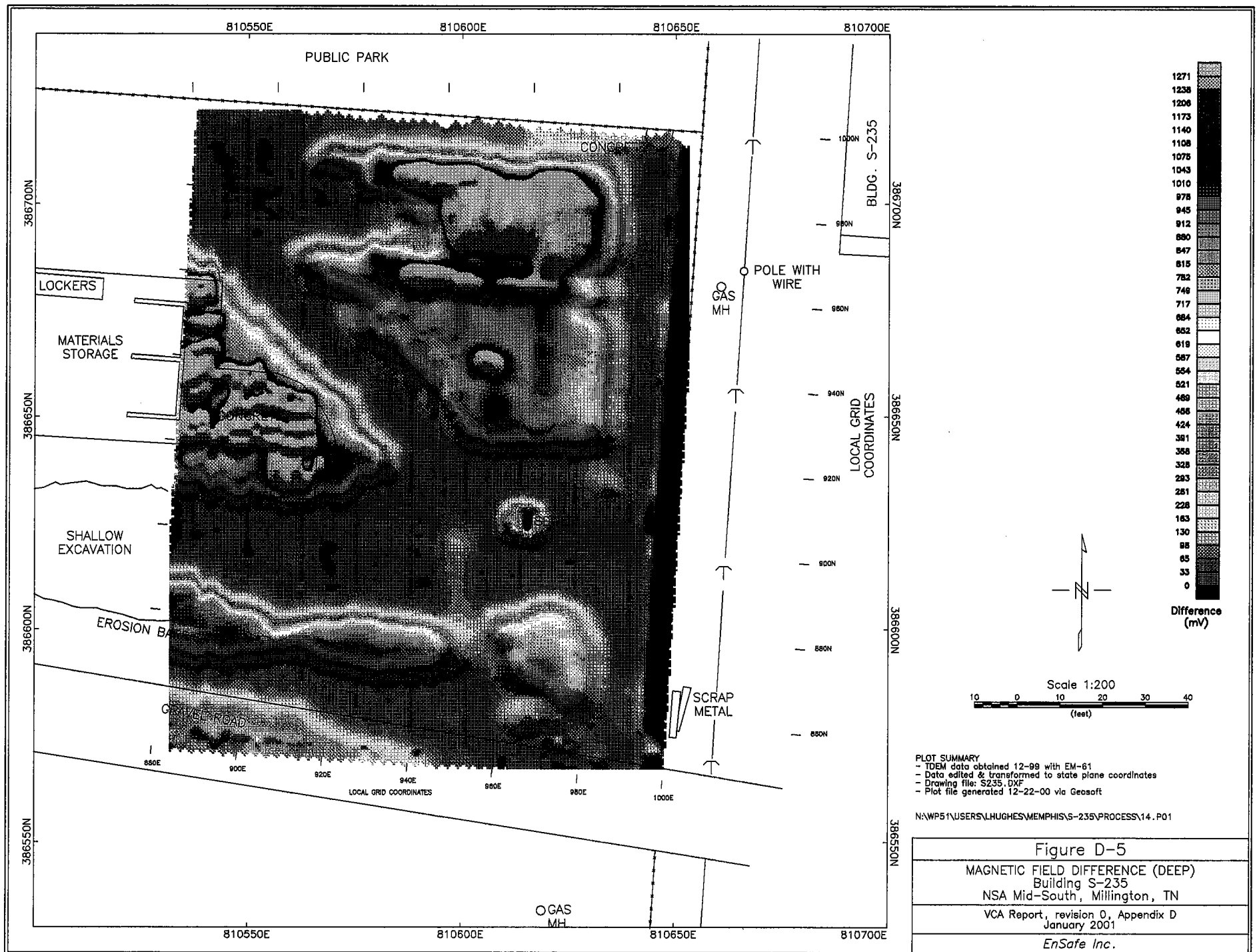
**Type D** — Anomaly-free with respect to the stated objectives. Type D areas are not specifically shown on the maps but generally one can assume they encompass all areas not designated Types A, B, or C.

## **D.2 Results**

### **D.2.1 Data Display**

Four parameters — top antenna, bottom antenna, shallow difference, and deep difference — were examined, and all showed similar responses. The deep-difference data were selected as representative of all these data.

Figure D-5 shows the difference data. Blue colors signify small differences, and magenta colors signify large differences. The excavated pipe that produced this survey was found somewhere south of the gas manhole indicated on the right side of the plot, although the exact location was not noted during the excavation.



The data plot is dominated by several larger, well-defined magenta areas, signifying positive antenna differences. In these areas, positive voltages were measured by both antennas. The anomalies have a peculiar, pseudo-triangular geometry with linear and regularly shaped enhancements in various places. Several other, more irregularly shaped, weaker anomalies are also seen.

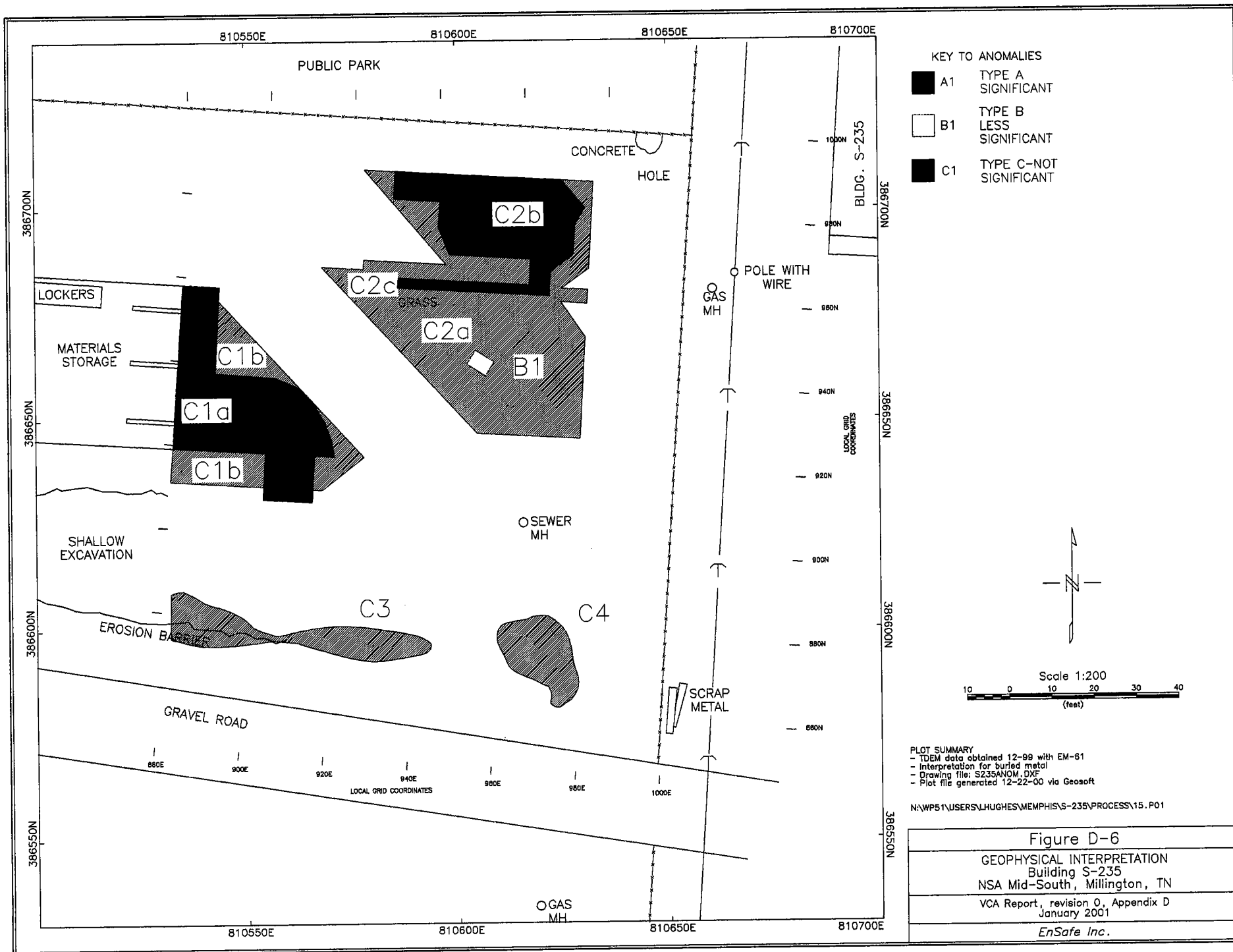
### **D.2.2 Data Interpretation**

Figure D-6 shows our interpretation of the data. No Type A anomalies are interpreted; there is only one Type B anomaly, as discussed subsequently. Four Type C anomalies are identified.

Anomalies C1 and C2 occupy the largest areas. On the basis of geometric appearance alone, they appear to be related to each other. Each is divided into several types of responses, designated a, b, etc.

Anomaly C1a, the most anomalous part of C1, corresponds spatially with the extent of a concrete slab. C1b extends outward a short distance from the slab, and its edge geometry is different from that of the slab.

Anomaly C2 shows a definite but peculiar geometry. C2a has the amplitude and geometric character of C1b, and might have a similar cause. C2b has an odd shape, which appears to be jagged but not irregular. The higher amplitude may signify increased metal content or perhaps metals closer to the surface. C2c has a narrow linear appearance not unlike that of a pipe. Although its orientation "points" to the gas manhole to the east, C2a appears to be confined to the area of Anomaly C2 and does not extend to the manhole.



The cause of C1 and C2 is not known. One possibility is that the anomalies arise from aluminum runway matting, which has been used at NSA Mid-South over the years for soil stabilization in equipment laydown areas and for vehicle parking. Matting is produced as interlocking rolls a few feet wide. It is possible that matting was put down in a contiguous sheet extending from C1 to C2, with some sections being removed later to accommodate utilities or other land uses. This might explain the diagonal or pseudo-triangular shapes noted between C1 and C2, and the missing section between them (note that the orientation of the missing section points toward the sewer manhole). Although the interpreted edges of the anomalies are shown as straight diagonals in Figure D-6, the same anomaly shape might result from a jagged matting edge from the systematic, decremental removal of adjacent matting sections. The jagged edge would be blurred in the TDEM data because of the finite size of the antennas. Of course, it is still speculative that matting is present at all; excavation is needed to confirm its presence.

Within C2a is a small, intense anomaly, designated B1 because it is remotely possible it could be a small underground tank or other feature of potential environmental concern. Most of the evidence is against B1 being a UST: it appears to be too small, it apparently has no supply or vent lines connected to it, and there is no apparent logic to where it is located with respect to usage areas. However, with work already scheduled at C2, it will be easy to excavate B1 to settle the issue.

Anomalies C3 and C4 are irregular in shape and do not have the linear, geometric appearance of C1 and C2, nor the amplitude. They are likely to have a different cause. Perhaps they arise from previous, shallowly buried metal debris. The recently erected erosion barrier, with its small rebar supports, explains only part of C3; clearly something additional has been buried. But the anomaly does not have the appearance expected of a UST.



### **D.3 Recommendations**

The following actions are recommended: (1) Excavate Anomaly C2 to confirm the source of the response. Confirm that C2c is not a pipe; if it is, follow it to any connections. (2) Confirm that Anomaly B1 is not a UST or other object of environmental concern.

From a geophysical standpoint, there is no compelling reason to excavate Anomalies C3 and C4.